REDACTED VERSION

PLM SOIL SAMPLING ANALYTICAL RESULTS
JULY 1-31,1997

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516 997 7251 212 290-0052 203-233-9007 313-668-6810 415-570-5401 404 333-6066 910 297 1487 713-686 3635

Attn Barbara Storey

Ecology & Environment, Inc
11550 Newcastle Ave #250
Baton Rouge LA 70816

Tuesday July 01 1997

Ref Number TX972639



REC'D JUL 0 8 1997

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS / 020601RAGI

			SAMPLE	ASB	<u>ESTOS</u>		NONASE	BESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS233G01	(b) (6)	Brown Non Fibrous Homogeneous	Teased	< 1% Ch	rysotile			100%	6 Other
WBS617G01		Brown Fibrous Homogeneous	Teased	5% Ch < 1% Cr	rysotile ocidolite			95%	6 Other
WBS321G03		Brown Fibrous Homogeneous	Teased	2% Ch < 1% Cr	rysotile ocidolite			98%	6 Other
WBS227G01		Brown Fibrous Homogeneous	Teased	3% Ch	rysotile			97%	6 Other
WBS041G01		Brown Fibrous Homogeneous	Teased	4% Ch	rysotile			96%	6 Other
WBS1285G01		Brown Non Fibrous Homogeneous	Teased	< 1% Ch < 1% Cre	•			100%	6 Other

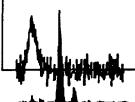
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Arthur Hernandez

Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Houston (NVLAP Air and Bulk #102106)

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609 858-4800 908 981-0550 516 997 7251 212 290-0052 203 233 9007 313-668-6810 415 570-5401 404 333-6066 910 297 1487 713-686 3635

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Baton Rouge LA 70816

Tuesday July 01 1997

Ref Number TX972639



POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS / 020601RAGI

			SAMPLE	ASBESTOS	NONASBESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIBROUS % NONFIBR	ROUS
WBS264G01	(b) (6)	Brown	Teased	< 1% Chrysotile	100% Other	
		Non Fibrous				
		Homogeneous				
WBS502G01	-	Brown	Teased	3% Chrysotile	97% Other	
		Fibrous		< 1% Crocidolite		
		Homogeneous				
WBS502G02		Brown	Teased	6% Chrysotile	94% Other	
		Non Fibrous		< 1% Crocidolite		
		Homogeneous				
WBS502G03	-	Brown	Teased	4% Chrysotile	96% Other	
		Non Fibrous		< 1% Crocidolite		
		Homogeneous				
WBS502G04	-	Brown	Teased	2% Chrysotile	98% Other	
		Non Fibrous		< 1% Crocidolite		
		Homogeneous				
WBS502G05	-	Brown	Teased	3% Chrysotile	97% Other	
		Non Fibrous		< 1% Crocidolite		
		Homogeneous				
	1					

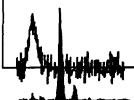
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Arthur Hemandez Jr

Analyst

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Analysis performed by EMSL of Houston (NVLAP Air and Bulk #102106)

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POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS / 020601RAGI

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBI %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS529G01	(b) (6)	Brown Non Fibrous Homogeneous	Teased	5% Ch < 1% Cr	rysotile ocidolite			95%	6 Other
WBS529G02		Brown Non Fibrous Homogeneous	Teased	< 1% Ch	rysotile			100%	6 Other
WBS229G01		Brown Non Fibrous Homogeneous	Teased	< 1% Ch < 1% Cre	•			100%	6 Other
WBS229G02		Brown Non Fibrous Homogeneous	Teased	2% Ch < 1% Cro	rysotile ocidolite			98%	6 Other
WBS529G03		Brown Non Fibrous Homogeneous	Teased	2% Ch < 1% Cro	rysotile ocidolite			98%	6 Other
WBS523G01		Brown Non Fibrous Homogeneous	Teased	< 1% Ch	rysotile			100%	6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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Arthur Hernandez Jr Analyst Approved Signatory



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OFFICIAL CHA'N OF CUSTODY RECORD

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OFFICIAL CHAIN OF CUSTODY RECORD

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Client	Ecology 8	& Environme	nt, inc		Logged	0/20						- (,
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EMSL Analytic	al Inc 2501	Central Parkwi	ay Suite C 13	Houston TX	77092								

Client Ecology & Environment Inc Logged 6/29/97

Address 11550 Newcastle Ave #250 Date/Time Due 6/30/97 9 00 AM

Baton Rouge LA 70816 Special Handling

(504) 363 4732

Fax

(z)

Billing Number TX972639

24 Hour

	_ ^+	pearance		Treatment	Asbestos Results	Fibrous	Non Fibrous	Optical
1 Brown 2 Grey	6 Varous 7 Black	1 Fibrous 2 Non Fibrous	1 Homogeneous 2 Heterogeneous		1 Chrysotile 2 Amosite	l Cellulose 2 Glass	Quartz Mica	Properties I
, 3 Tan 4 White	8 Silver 9 Blue	3 Other	3 Other 4 Layers (#)	3 Dissalved	3 Anthophyllite 4 Tremolite	3 Min Wool 4 Synthetic	3 Gypsum 4 Cal Carbonate	
5 Red	0 Orange		4 Layers (#)		5 Actinolite	5 Other	5 Matrix	1.1
					6 Crocidolite 0 None Detected	6 Wollastonite 7 Hair	6 Perlite 7 Other	2 gh 2 pe f
				, – -		Fibrous	Non Fibrous #	P B F 1.3 1.1 1 Par () 1 2.5 2 1.0 2 Synume
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24 Hour TAT 6/29/97 Logged Ecology & Environment, Inc Client 9 00 AM Date/Time Due 6/30/97 11550 Newcastle Ave #250 Address Baton Rouge LA 70816 Special Handling Billing Number (504) 363 4732 TX972639 Project WESTBANK ASBESTOS / 020601RAGI Treatment | Asbestos Results Non Fibrous Optical Fibrous Appearance Properties 1 Cellulose I Quartz Chrysotile 1 Brown 1 Fibrous 1 Homogeneous 1 Teased 6 Various 2 Glass 2 Mica 2 Crushed 3 Dissolved Amosite 2 Grey 7 Black 2 Non Fibrous 2 Heterogeneous 3 Min Wool 4 Synthetic 5 Other Anthophyllite 3 Gypsum 3 Other 3 Tan 8 Silver 9 Blue 3 Other 4 Ashed Tremolite 4 Cal Carbonate 4 Layers (#) 4 White 5 Matrix Actinolite 5 Red 0 Orange 6 Perlite 7 Other 6 Crocidolite Wollastonite 0 None Detected 7 Hair Fibrous Non Fibrous Layers Appearance Treatment Туре % % ASBESTOS Type Sample Location 11 11 В В E Analyst 6 Computer Date

PLM Analysis Worksheet

□ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516 997 7251 212 290-0052 203 233 9007 313-668-6810 415 570 5401 404 333-6066 910 297 1487 713-686 3635

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 01 1997

Ref Number IN97375



RECD JUL 0 8 1957

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS 020601RAG1

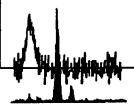
			SAMPLE	ASB	ESTOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS250GO1	(b) (6)	Brown	Crushed	No	ne Detected	,			6 Quartz
		Non Fibrous Homogeneous						20%	6 Other
WBS250GO2		Brown	Crushed	< 1% Ch	rysotile			80%	6 Quartz
		Non Fibrous Homogeneous						20%	6 Other
WBS250GO3		Brown	Crushed	< 1% Ch	rysotile	 		80%	6 Quartz
		Non Fibrous Homogeneous						20%	6 Other
WBS250GO4	_	Brown	Crushed	< 1% Ch	rysotile			80%	6 Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS250G05		Brown	Crushed	1% Ch	rysotile			79%	6 Quartz
		Non Fibrous Homogeneous		1% Cro	ocidolite			19%	Other
WBS250GO6		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			18%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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EMSL

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 01 1997

Ref Number IN97375

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

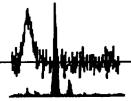
Project WESTBANK ASBESTOS 020601RAG1

			SAMPLE	ASBE:	<u>stos</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS250GO7	o) (6)	Brown	Crushed	1% Chry	ysotile			80%	√ Quartz
		Non Fibrous Homogeneous		1% Croo	cidolite			189	% Other
WBS250GO8		Brown	Crushed	< 1% Chry	/sotile			80%	% Quartz
		Non Fibrous Homogeneous						20%	6 Other
VBS250GO9		Brown	Crushed	< 1% Chry	/sotile	T			% Quartz
		Non Fibrous Homogeneous		< 1% Croc	cidolite			20%	6 Other
VBS263GO1		Brown	Crushed	< 1% Chry	/sotile			80%	6 Quartz
		Non Fibrous Homogeneous						20%	6 Other
WBS420GO1		Brown	Crushed	None	e Detected			80%	6 Quartz
		Non Fibrous Homogeneous						20%	6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples 'each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

íane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

04) 363 ESTBANK		1 Homogeneous 2 Heterogeneous 3 Other	3 Dissolved 4 Ashed	Asbestos Resul 1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Croadolite 0 None Detected % ASBESTO	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair Fibrous	Non I I Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other	bonate		Opti Prope	75
App Vanous Black Silver Blue Orange	Pearance 1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	Chrysotie Amoste Anthophyllite Tremolite Actinolite Crocidolite None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair Fibrous	I Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other	bonate Ibrous	#	Opti Prope	ocal erties 1 2 1 Parallel 1 Symmetric.
Siver Black Siver Blue Orange	1 Fibrous 2 Non-Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	Chrysotie Amoste Anthophyllite Tremolite Actinolite Crocidolite None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair Fibrous	I Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other	bonate Ibrous	#	Prope	s Farald 2 Symmetric.
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Client	Ecology &	Environme	ntal		Logged	6/30/97			TAT	1 Day
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ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD

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.EPA 7500-53

Green to Report Yellow Returns with Warrant

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EMSL

Attn Lawrence Roedl

Ecology & Environmental

11550 New Castle Avenue

Baton Rouge LA 70816

Wednesday July 02 1997

Ref Number IN97379

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 02060 RAGI - WESTBANK ASBESTOS

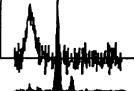
			SAMPLE	ASBE	STOS		<u>NONASB</u>	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS265G01	0) (6)	Brown	Crushed	2% Chi	ysotile			80%	6 Quartz
		Non Fibrous		< 1% Am	osite			18%	6 Other
		Homogeneous							
NBS265G02		Brown	Crushed	< 1% Chi	ysotile			80%	6 Quartz
		Non Fibrous		< 1% Cro	•			20%	6 Other
		Homogeneous							
WBS265G03		Brown	Crushed	< 1% Chi	ysotile			80%	6 Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	6 Other
		Homogeneous							
VBS215G04		Brown	Crushed	2% Chr	ysotile	1		80%	6 Quartz
		Non Fibrous		< 1% Am	osite			18%	6 Other
		Homogeneous		< 1% Cro	cidolite				
VBS551G04		Brown	Crushed	2% Chr	ysotile			80%	∮ Quartz
		Non Fibrous		< 1% Am	osite			18%	6 Other
		Homogeneous		< 1% Cro	cidolite				
NBS234G01		Brown	Crushed	2% Chr	ysotile	1			6 Quartz
		Non Fibrous		< 1% Cro	cidolite			18%	6 Other
Ŧ		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

1

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516 997 7251 212 290-0052 203 233-9007 313-668-6810 415 570 5401 404 333-6066 910 297 1487 713-686 3635

EMSL

Attn Lawrence Roedl

Ecology & Environmental

11550 New Castle Avenue

Baton Rouge LA 70816

Wednesday July 02 1997

Ref Number IN97379

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 02060 RAGI - WESTBANK ASBESTOS

		SAMPI F	<u>ASBES</u>	STOS		<u>NONASB</u>	<u>ESTOS</u>	
LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
0) (6)	Brown	Crushed	< 1% Chry	sotile				Quartz
	Non Fibrous Homogeneous						20%	Other
	Brown	Crushed	None	e Detected			80%	Quartz
	Non Fibrous						20%	Other
	Homogeneous		ļ 					
	Brown	Crushed	1% Chry	sotile	1		80%	Quartz
	Non Fibrous		1% Croc	idolite			18%	Other
	Homogeneous							
	Brown	Crushed	1% Chry	sotile			80%	Quartz
	Non Fibrous		1% Croc	idolite			18%	Other
	Homogeneous							
		Brown Non Fibrous Homogeneous Brown Non Fibrous Homogeneous Brown Non Fibrous Homogeneous Brown Non Fibrous Homogeneous	Brown Crushed Non Fibrous Homogeneous Brown Crushed Non Fibrous Homogeneous Crushed Crushed Crushed Crushed Crushed Crushed Crushed Crushed Crushed Non Fibrous Homogeneous Crushed	LOCATION APPEARANCE TREATMENT 8 Brown Non Fibrous Homogeneous Crushed Non Fibrous Homogeneous Brown Crushed Non Fibrous Homogeneous Crushed 1% Chry Non Fibrous Homogeneous Crushed 1% Chry 1% Croc	LOCATION APPEARANCE TREATMENT % TYPE Brown Non Fibrous Homogeneous Brown Non Fibrous Homogeneous Crushed Non Fibrous Homogeneous Crushed Non Fibrous Homogeneous Brown Non Fibrous Homogeneous Crushed 1% Chrysotile 1% Crocidolite Brown Non Fibrous Homogeneous Crushed 1% Chrysotile 1% Crocidolite	LOCATION APPEARANCE TREATMENT % TYPE % Brown Crushed < 1% Chrysotile Brown Non Fibrous Homogeneous Crushed None Detected Non Fibrous Homogeneous Crushed 1% Chrysotile 1% Crocidolite Brown Crushed 1% Chrysotile 1% Crocidolite Crushed 1% Chrysotile 1% Crocidolite	Brown Non Fibrous Homogeneous Brown Crushed None Detected Non Fibrous Homogeneous Brown Crushed None Detected Non Fibrous Homogeneous Brown Crushed 1% Chrysotile 1% Crocidolite Brown Non Fibrous Homogeneous Brown Crushed 1% Chrysotile 1% Crocidolite Brown Non Fibrous Homogeneous	LOCATION APPEARANCE TREATMENT % TYPE % FIBROUS % Brown Crushed < 1% Chrysotile 80% 20% 80%

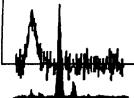
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

Analyst

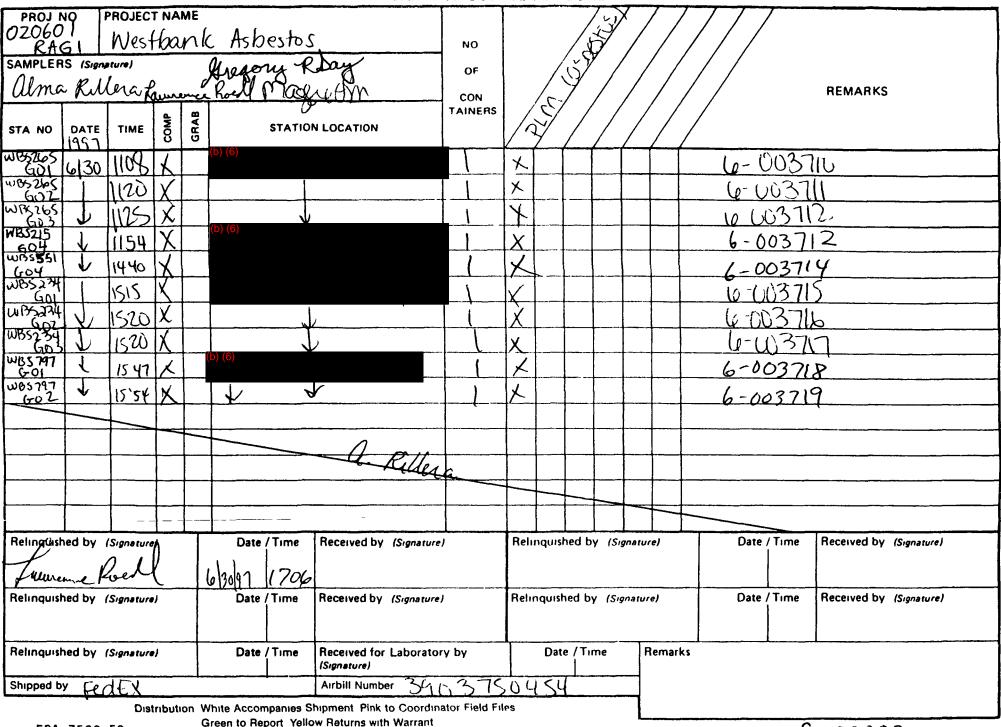
Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

OFFICIAL CHAIN OF CUSTODY RECORD



EPA 7500-53

6- 03863

Logged 7/1/97

TAT 1 Day

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Fax	(504) 363 -					Spe	cial Ha	ndling		, E	Billing N IN97:	
roject	02060 RAGI	WESTBANK	ASBESTOS							<u> </u>		
	Ар	pearance		Treatment	Asbestos Result		ous		ibrous	-		tical
Brown Grey Tan White Red	6 Vanous 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 12 Heterogeneous 13 Other 4 Layers (#)	4 Ashed	Chrysotile Amoste Anthophyllite Tremolite Actinolite Crocidolite None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastoni 7 Hair		1 Quartz 2 Mica 3 Gypsum 4 Cal Carl 5 Matrix 6 Perlite 7 Other			Prop M 1 W vy 2 Strugts 3 Specify	erties
Sar	mple !	Location	Appearance	Treatment	% ASBESTOS		rous %	Non F	ibrous %	# Layers	P B 1 Yes Low 2. N 2. Med 3 High	E I Persilei 2. Svermetr 3 Obbque
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Client Ecology & Environmental



7/1/97 **Ecology & Environmental** Logged TAT 1 Day Client 11550 New Castle Avenue 7/2/97 9 00 AM Date/Time Due Address Baton Rouge LA 70816 Special Handling **Billing Number** Fax (504) 363 4939 IN97379 02060 RAGI WESTBANK ASBESTOS Project Appearance Treatment **Asbestos Results Fibrous** Non Fibrous Optical **Properties** Chrysottle 1 Cellulose 1 Brown 6 Various 1 Fibrous 1 Homogeneous Teased 1 Quartz 2 Glass 2 Mica 2 Non-Fibrous 3 Other Crushed Amosite 2 Grey 7 Black 2 Heterogeneous Dissolved Anthophyllite 3 Min Wool Gypsum 8 Silver 3 Tan 3 Other 4 Synthetic 5 Other 4 White 9 Blue 4 Layers (#) Tremolite 4 Cal Carbonate Actinolite 5 Red 0 Orange 5 Matrix Crocidolite 6 Wolls 7 Hair Perlite 0 None Detected Other Fibrous Non Fibrous % ASBESTOS Sample Location Appearance Treatment Type % Type 80 1-2% 155 2-<170 2 E WBS 551604 10-41 70 70 2^m E 10 2 s 1-2% 80 6-<170 WBS 234601 1-<170 80 2 20 WBS 234402 0 Ü 80 NO 2 S 20 WBS234603 80 154 1-170 6-170 Ε WBS 197601 131 170 2 Analyst Mayout 3. Phillips Date

dress	Baton Roug	Castle Ave		а	ate/Time Due	<i>7/2/</i> 97	9 00 Special Ha	AM		В	illing Nu	ımbe
Fax	(504) 363 -	4939									IN973	79
Project	02060 RAGI	WESTBANI	K ASBESTOS		١							
I Brown Grey 3 Tan 4 White 5 Red	6 Vanous 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	Asbestos Resul 1 Chrysoule 2 Amoste 3 Ambophyliste 4 Tremoine 5 Actunolite	1 Cellul 2 Glass 3 Min 1 4 Synth 5 Other	Wool euc	l Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matnx			Opti Prope	
					6 Crocidolite 0 None Detected	6 Wolls. 7 Hair		6 Perlite 7 Other			2. Straight 3. Specify	i E
Sa	mple	Location	Appearance	Treatment	% ASBESTO		Fibrous pe %	Non F	ibrous %	# Layers	1 Yes 1 Less 2 No. 2 Med 3 High	1 Pendal 1 Symmetry 1 Obligan
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EMSL

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 02 1997

Ref Number IN97380

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

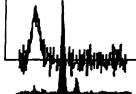
Project 020601 RAG1 - WESTBANK ASBESTOS

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBC1116G01	(b) (6)	Brown	Crushed	2% Ch	rysotile				Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBC1116G02		Brown	Crushed	< 1% Ch	ırysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	-			20%	Other
WBC1116G03		Brown	Crushed	< 1% Ch	rysotile	<u> </u>		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBS262G01		Brown	Crushed	2% Ch	rysotile	1		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite	1		18%	Other
WBS262G02		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			18%	Other
WBS262G03		Brown	Crushed	2% Ch	rysotile				Quartz
		Non Fibrous		< 1% Cr	ocidolite			18%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516 997 7251 212 290-0052 203 233 9007 313-668-6810 415 570 5401 404 333-6066 910 297 1487 713-686 3635 EMSL

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 02 1997

Ref Number IN97380

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 - WESTBANK ASBESTOS

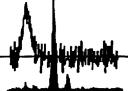
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBI</u> %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS1031G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	3% Ch	rysotile				6 Quartz 6 Other
WBS1031G02		Brown Non Fibrous Homogeneous	Crushed	3% Ch	rysotile				6 Quartz
WBS1031G03		Brown Non Fibrous Homogeneous	Crushed	3% Ch 2% Cro	rysotile ocidolite				6 Quartz 6 Other
WBS1031G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				6 Quartz 6 Other
WBS1031G05		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	•				6 Quartz 6 Other
WBS551G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	-				6 Quartz 6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 509-858-4800 908 981-0550 516 997 7251 212 290-0052 203 233 9007 313-668-6810 415-570 5401 404 333-6066 910 297 1487 713-686-3635

EMSL

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Ecology & Environmental

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POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 - WESTBANK ASBESTOS

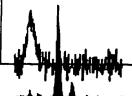
			SAMPLE	<u>ASBE</u>	STOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS551G02	(b) (6)	Brown	Crushed	< 1% Ch	rysotile		_ <u>_</u>	80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS551G03		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			18%	Other
WBS215G01		Brown	Crushed	3% Ch	rysotile				Quartz
		Non Fibrous Homogeneous		1% Cro	ocidolite			16%	Other
WBS215G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS215G03		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	-				Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

OFFICIAL CHAIN OF CUSTODY RECORD

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OFFICIAL CHAIN OF CUSTODY RECORD

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Client	Ecology & I	Environmer	ntal		Logged	7/1/	97		TAT	1 Day		
Address	11550 New Baton Roug	Castle Aver		D	ate/Time Due	7/2/	97 9 00	AM				
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Project	020601 RAG	WESTBAN	NK ASBESTOS									
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Client	Ecology &	Environmei	ntal		Logged	7/1/9	7		TAT	1 Day		
Address	11550 New Baton Roug			C	late/Time Due	7/2/9	7 900	AM				
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Project	020601 RAG	WESTBAN	NK ASBESTOS									
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2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amosste 3 Anthophyllite 4 Tremolite 5 Actunolite 6 Crocidolite	3 4 5	Glass Min Wool Synthetic Other Wollastonite	2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite	bonate		W 1 W vy 2 Straight 3 Specify	s
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Client

Ecology & Environmental

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

7/1/97

TAT 1 Day

Logged 7/2/97 9 00 AM 11550 New Castle Avenue Date/Time Due **Address** Baton Rouge LA 70816 Special Handling **Billing Number** (504) 363 4939 Fax IN97380 020601 RAG1 - WESTBANK ASBESTOS **Project** Asbestos Results **Fibrous** Non Fibrous Appearance Treatment Optical 6 Vanous 7 Black 8 Silver 9 Blue **Properties** Chrysotile Cellulose Quartz 1 Brown 1 Fibrous 1 Homogeneous Teased 2 Grey 3 Tan Glass Min. Wool 2 Non-Fibrous 2 Heterogeneous Crushed 2 Mica 3 Gypsum 3 Other 3 Other Dissolved Anthophyllite 4 Synthetic 5 Other Cal Carbonate 4 Lavers (#) Tremobite 4 White Ashed 0 Orange 5 Matrix 5 Red Crocadolite Wollastonite 6 Perlite 7 Other Haur 0 None Detected **Fibrous** Non Fibrous Layers % ASBESTOS Sample Treatment % Type % Location Appearance Type 154 1 35 80 WG5215601 14 S PZ ε 170 171 602 54 80 Ε 71 154 603 070 S Ε 2 s ı 11 м S В E 1 B 11 M S В E Computer Date Analyst

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516-997 7251 212 290-0052 203 233 9007 313-668-6810 415 570 5401 404 333-6066 910 297 1487 713-686-3635

EMSL

Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 03 1997

Ref Number IN97394

POLARIZED LIGHT MICROSCOPY (PLM)

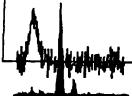
Performed by EPA 600/R-93/116 Method*

Project 02061 RAG1 - WESTBANK ASBESTOS

			SAMPLE	ASBI	<u>STOS</u>		NONASB		
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS213G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS035G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS389G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	=			20%	Other
WBS389G02		Brown Non Fibrous Homogeneous	Crushed	3% Ch	rysotile				Quartz Other
WBS389G03		Brown Non Fibrous Homogeneous	Crushed	2% Ch < 1% Cro	rysotile ocidolite				Quartz Other
WBS389G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	*				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

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EMSL

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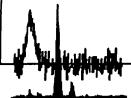
			SAMPLE	<u>ASB</u>	<u>ESTOS</u>	NONASBESTOS				
SAMPLE _	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS	
WBS981G01	0) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ct	ırysotile				Quartz Other	

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Client	Ecology	& Environmen	ntal		Logged	7/2/	97			TAT	1 Day					
Address		ew Castle Aver		C	Date/Time Due 7/3/97 9 30 AM] [
Fax	(504) 363	3 - 4833			Special Handling							Billing Number				
Project	02061 RA	G1 WESTBANI	K ASBESTOS													
		Appearance		Treatment	Asbestos Resi	ults	Fibro	ous	Non F	brous	7	Opt				
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 3 4 5 6	Cellulose Giass Min Wool Synthetic Other Wollastorut	:	1 Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite	bonate		Propo M 1 W vy 2. Straight 3 Specify	erties			
					0 None Detected		Hair Fibi	ous	7 Other Non F	ibrous	#	P B	E i Parallel			
Sa	ımple	Location	Appearance	Treatment	% ASBEST	os	Туре	%	Туре	%	Layers	3 High	2. Syntametric. 3 Oblique			
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Client	Ecology	& Environme	ntal		Logged	7/2/97			TAT	1 Day		
ddress		ew Castle Aver		D	ate/Time Due	7/3/97	9 30		1			
Fax	Fax (504) 363 - 4833						Special Ha	Billing Number				
Project	02061 RAC	G1 WESTBAN	K ASBESTOS			···						
		Appearance		Treatment	Asbestos Resi		Fibrous	Non F	ibrous		Opti Prope	
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	3 Dissolved 4 Ashed	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	2 Gl 3 Mi 4 Sy 5 Ot	in Wool nthetic her ollastonite	1 Quartz 2 Mica 3 Gypsum 4 Cal Cart 5 Matrix 6 Perlite 7 Other	oonate		1 W vy 2. Strught 3. Specify	3
				,			Fibrous	Non F		# Layers	P B I Yes 1 Low 2. No 2 Med 3 High	E I Parallel 2. Symmetric. 3 Oblique
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EMSL Analytical Inc 6330 E 75th St. Suite 152 Indianapolis IN 46250

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'EPA 7500-53 (11/96) Green to Report Yellow Returns with Warrant

6- 08864

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908-981 0550 516 997 7251 212 290-0052 203-233 9007 313-668-6810 415-570 5401 404 333-6066 910 297 1487 713-686-3635

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Monday July 07 1997

Ref Number IN97408



POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS 020601RAG1

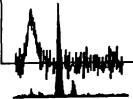
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBES	STOS TYPE	%	<u>NONASBE</u> FIBROUS	 NONFIBROUS
WBS395G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chry	/sotile			Quartz Other
WBS395G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chry	/sotile			Quartz Other
WBS552G02		Brown Non Fibrous Homogeneous	Crushed	2% Chry < 1% Cros				Quartz Other
WBS552G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chry < 1% Croo				Quartz Other
WBS502G05A		Brown Non Fibrous Homogeneous	Crushed	2% Chry < 1% Croc				Quartz Other
WBS221G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chry < 1% Croc				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst

Approved Signatory



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Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609-858-4800 908 981-0550 516 997 7251 212 290-0052 203 233 9007 313-668-6810 415 570 5401 404 333-6066 910 297 1487 713-686 3635

EMSL

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Project WESTBANK ASBESTOS 020601RAG1

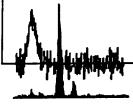
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBE %	STOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS555G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro					Quartz Other
WBS540G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro	*				Quartz Other
WBS540G02		Brown Non Fibrous Homogeneous	Crushed	2% Chr < 1% Cro					Quartz Other
WBS540G03		Brown Non Fibrous Homogeneous	Crushed	2% Chr. < 1% Cro					Quartz Other
WBS427G01		Brown Non Fibrous Homogeneous	Crushed	Non	e Detected				Quartz Other
WBS427G02		Brown Non Fibrous Homogeneous	Crushed	2% Chry < 1% Croo					Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

Westmont NJ Piscataway NJ Carle Place NY Manhattan NY Seattle WA Ann Arbor MI San Mateo CA Smyrna GA Greensboro NC Houston TX 609 858-4800 908 981-0550 516 997 7251 212 290-0052 203 233-9007 313-668-6810 415 570-5401 404 333-6066 910-297 1487 713-686 3635

Attn Lawrence Roedl
Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Monday July 07 1997

Ref Number IN97408



POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS 020601RAG1

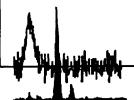
			SAMPLE	<u>ASBE</u>	STOS		<u>NONASB</u>	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS219G01	(b) (6)	Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite	1		20%	Other
		Homogeneous							
WBS219G02		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	-				Other
		Homogeneous							
WBS219G03		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	=			20%	Other
		Homogeneous							
WBS219G04		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous							
WBS1046G01		Brown	Crushed	Non	e Detected	1		80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS1046G02		Brown	Crushed	< 1% Chr	ysotile				Quartz
		Non Fibrous		< 1% Cros	cidolite			20%	Other
		Homogeneous							l.
			L	L		4			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

autz Yhulps Margaret Phillips Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0)

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EMSL

Attn Lawrence Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Monday July 07 1997

Ref Number IN97408

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS 020601RAG1

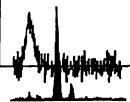
			SAMPLE	ASB	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1046G03	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cr	nrysotile ocidolite				Quartz Other

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Analyst

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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Client	Ecology &	Environme	ntai		Logged	7/3/97	7		TAT	1 Day
ddress		Castle Aver ge LA 7081		C	ate/Time Due	7/7/97	7 9 00	AM		
Fax	(504) 363						Special Ha	ndling		Billing Numbe
Project	WESTBANK	ASBESTOS	020601RAG1							
1 Brown	Ap	pearance	1 Homogeneous	Treatment 1 Teased	Asbestos Resu		Fibrous Cellulose	Non 1 Quartz	Fibrous	Optical Properties
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other		2 Crushed 3 Dissolved 4 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	2 C 3 N 4 S 5 C	Glass Min Wool Synthetic Other Vollastomte	2 Mica 3 Gypsun 4 Cai Ca 5 Matrix 6 Perlite 7 Other	n	11 W vy 1 2 Straight 2. 13 Specify
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Client	Ecology & E	Environme	ntal		Logged 7/	3/97			TAT	1 Day	
Address	11550 New 0 Baton Rouge			C	Date/Time Due 7/	7/97	9 00 /	AM			
Fax	(504) 363 - 4	1939				Spe	cial Han	dling		E	Billing Number
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Project	WESTBANK A		020601RAG1								
1 Brown		earance 1 Fibrous	1 Homogeneous	Treatment 1 Teased	Asbestos Results 1 Chrysotile	Fibro Cellulose	ous	1 Quartz	ibrous	ļ	Optical Properties
2 Grey 3 Tan 4 White 5 Red		2 Non-Fibrous 3 Other		2 Crushed 3 Dissolved 4 Ashed	2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wolfastonit	e	2 Mica 3 Gypsum 4 Cal Cart 5 Matrix 6 Perlite	onate	1	i W vy i 2. Straught 2.
					0 None Detected	7 Hair		7 Other			3 Specify
Sa	mple	Location	Appearance	Treatment	% ASBESTOS	Type	rous %	Non F Type	ibrous %	# Layers	1 Yes I Low I Parallet 2 V 2. Viol 2. Synametric. 3 High 3 Oblique
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

	Baton Roug	Castle Aver ge LA 7081					7 900					
Fax	(504) 363	4939					Special Han	dling		В	illing N IN97	
Project	WESTBANK	ASBESTOS	020601RAG1								11437	
	App	pearance		Treatment	Asbestos Resu	ults	Fibrous	Non-F	brous	-		otical
l Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	Homogeneous Heterogeneous Other Layers (#)	3 Dissalved 4 Ashed	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremobite 5 Actinolite 6 Crocidolite 0 None Detected	2 3 4 5 6	Cellulose Glass Min Wool Synthetic Other Wollastonite Hair	1 Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other			L W vy 2. Straight 3. Specify	perties
Sar	mple	Location	Appearance	Treatment	% ASBEST)S	Fibrous Type %	Non F	ibrous ' %	# Layers	PB 1 Year I Low 2 N 2 Nor 3 Hug	i Parati d 2 Sytem d 3 Oblique
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ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL
CHAIN OF CUSTODY RECORD

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 10 1997

Ref Number IN97441

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBI %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	 NONFIBROUS
WBS952G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch				Quartz Other
WBS952G02	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile			Quartz Other
WBS212G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	-			Quartz Other
WBS212G02	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro				Quartz Other
WBS561G01		Brown Non Fibrous Homogeneous	Crushed	2% Ch	rysotile			Quartz Other
WBS561G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chi	rysotile			Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor titles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



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Ref Number IN97441

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

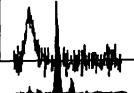
			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS561G03	(b) (6)	Brown	Crushed	< 1% Ch	rysotile	T		60%	Quartz
		Non Fibrous						40%	Other
		Homogeneous							
WBS561G04		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous				1		20%	Other
		Homogeneous							
WBS789G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			20%	Other
		Homogeneous							
WBS789G02		Brown	Crushed	< 1% Ch	rysotile	T -		80%	Quartz
,		Non Fibrous						20%	Other
		Homogeneous							
WBS789G03		Brown	Crushed	< 1% Chi	ysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS218G01		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
1		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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2

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue

Baton Rouge LA 70816

Thursday July 10 1997

Ref Number IN97441

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

			SAMPLE	ASBI	<u>stos</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS218G02	(b) (6)	Brown	Crushed	< 1% Ch	rysotile	1		80%	6 Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	6 Other
WBS870G01	-	Brown	Crushed	< 1% Ch	rysotile	- <u> </u>		80%	Quartz
		Non Fibrous Homogeneous						20%	6 Other
WBS870G02		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other
WBS508G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz Other
WBS508G02		Brown Non Fibrous Homogeneous	Crushed	2% Ch < 1% Cro	rysotile ocidolite				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

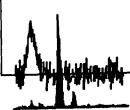
* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

Approved Signatory

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)



Client	Ecology &	Environme	ntal		Logged	7/9/97		TAT	1 Day		
Address		Castle Aver ge LA 708		С	Date/Time Due	7/10/97	9 00 AM				
Fax	(504) 363 -	4732				Spec	ial Handling		В	Illing Nu	
Project	020601 RAG	1 WESTBAN	K ASBESTOS		-					IN974	41
	Apı	pearance		Treatment	Asbestos Resu	its Fibro	us Non	Fibrous		Opţı	
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair	1 Quartz 2 Mica 3 Gypsur 4 Cal Ca 5 Matrix 6 Perlite 7 Other	n		Prope	rties
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Client Ecology & Environmental

Logged 7/9/97

TAT 1 Day

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1 Brown 2 Grey	6 Various 7 Black	Pearance I Fibrous 2. Non-Fibrous	1 Homogeneous 2 Heterogeneous	Treatment 1 Teased 2 Crushed	1 Chrysotile 2 Amosite	l Cellulose 2 Glass		1 Quartz 2 Mica	ibrous		F	Optio	cal rties	
3 Tan 4 White 5 Red	8 Silver 9 Blue 0 Orange	3 Other	3 Other 4 Layers (#)	3 Dissolved 4 Ashed	3 Anthophyllite 4 Tremoine 5 Actinolite 16 Crocidolite 0 None Detected	3 Min Woo 4 Synthetic 5 Other 6 Wollaston 7 Hair	ute	3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other			i Wavy 2. Strught 3 Specify		1 2	
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OFFICIAL
CHAIN OF CUSTODY RECORD

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WB5789		0910	X		(b) (6)				X					6-003	756	
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EPA 7500-53

Green to Report Yellow Returns with Warrant

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EPA 7500-53

reen to Report Yellow Returns with Warrar

6- <u>08859</u>

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Friday July 11 1997

Ref Number IN97455

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ANALYSIS

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1029G01	0) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous				1			
WBS1029G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous	I	< 1% Cr	ocidolite				Other
		Homogeneous							
WBS259G01		Brown	Crushed	< 1% Ch	rysotile	1		80%	Quartz
		Non Fibrous		< 1% Cro	•				Other
		Homogeneous							
WBS259G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS259G03		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous				ļ			Other
		Homogeneous							
WBS218G03		Brown	Crushed	< 1% Ch	rysotile	·		80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous							

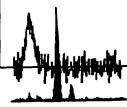
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory

Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)



6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Friday July 11 1997

Ref Number IN97455

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ANALYSIS

			SAMPLE	<u>ASBE</u>	STOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS809G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz Other
WBS704G01		Brown Non Fibrous Homogeneous	Crushed	3% Ch < 1% Cro	-				Quartz Other
WBS260G01		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other
WBS260G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chi	ysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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Client	Ecology	& Environmei	ntal		Logged 7/	10/97	TAT	1 Day
Address		ew Castle Aver		D	ate/Time Due 7/	11/97 9 00	AM	
Fax	(504) 363	- 4732			l ,	Special Ha	ndling	Billing Number
Project	020601 RA	G1 WESTBANI	K ANALYSIS		}			IN97455
		ppearance		Treatment	Asbestos Results	Fibrous	Non Fibrous	Optical
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	3 Dissolved 4 Ashed	Chrysotile Amoste Anthophyllite Tremolite Actinolite Croadolite	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite	Properties
Q.	ımple	Location	Appearance	Treatment	0 None Detected % ASBESTOS	Fibrous Type %	7 Other Non Fibrous Type %	3 Specify P B E E
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nalys t —	\mathcal{A}	- 1/b	Date _	7/11	7 Computer			Date

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Client		Environme		_	Logged	7/10/			TAT	1 Day		
dress	Baton Roug	Castle Aver ge LA 7081		D	ate/Time Due	7/11/	97 9 00 Special Hai			В	illing Nu	ımbei
Fax	(504) 363										IN974	55
roject	020601 RAG	1 WESTBAN	K ANALYSIS		<u> </u>							
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Grey Tan White Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	12 Heterogeneous 13 Other 14 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	2 3 4 5 6	Glass Min Wool Synthetic Other Wollastonite Hair	2 Mica 3 Gypsum 4 Cal Carb 5 Matrix 6 Perlite 7 Other	onate		U I W vy 2. Strugts 3. Specify	S 1 2 2
Sai	mple	Location	Appearance	Treatment	% ASBESTO	26	Fibrous Type %	Non F		# Layers	P B 1 Yes 1 Low 2 N 2 Med 3 High	E 1 Perallel 2. Sytzmetre 3 Oblique
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

ENVIRONMENTAL PROTECTION AGENCY

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EPA 7500-53 (11/96)

Green to Report Yellow Returns with Warrant

6- บริริกิก

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Monday July 14 1997

Ref Number IN97461

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

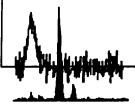
Project 020601 RAG1 WESTBANK ASBESTOS

			SAMPLE	<u>ASBESTOS</u>	NONASI	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIBROUS	% NONFIBROUS
WBS950G01	(b) (6)	Brown	Crushed	< 1% Chrysotile		80% Quartz
		Non Fibrous		< 1% Crocidolite		20% Other
		Homogeneous				
WBS393G01	-	Brown	Crushed	< 1% Chrysotile		80% Quartz
		Non Fibrous		< 1% Crocidolite		20% Other
		Homogeneous				
WBS258G01		Brown	Crushed	< 1% Chrysotile		80% Quartz
		Non-Fibrous	ļ			20% Other
		Homogeneous				
WBS258G02		Brown	Crushed	< 1% Chrysotile		80% Quartz
1		Non Fibrous		< 1% Crocidolite		20% Other
		Homogeneous		_		_
WBS716G01		Brown	Crushed	< 1% Chrysotile		80% Quartz
		Non Fibrous		< 1% Crocidolite		20% Other
		Homogeneous				
WBS716G02		Brown	Crushed	< 1% Chrysotile		80% Quartz
		Non Fibrous	1	< 1% Crocidolite		20% Other
		Homogeneous		1		

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198-1 Method

argaret Phillips Analyst Approved Signatory



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1

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Ecology & Environmental

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Baton Rouge LA 70816

Monday July 14 1997

Ref Number IN97461

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

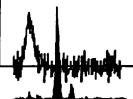
			SAMPLE	ASBE	STOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS716G03	(b) (6)	Brown	Crushed	< 1% Chr	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS697G01				440/ Oh-				900/	Quartz
WB3697G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr	ysotile				Other
WBS697G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr	ysotile				Quartz Other
WBS697G03		Brown Non Fibrous Homogeneous	Crushed	3% Chr 1% Cro	•				Quartz Other
WBS1028G01		Brown Non-Fibrous Homogeneous	Crushed	< 1% Chr	ysotile				Quartz Other
WBS558G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro	-				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst

Approved Signatory



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Monday July 14 1997

Ref Number IN97461

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

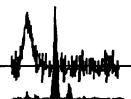
Project 020601 RAG1 WESTBANK ASBESTOS

			SAMPLE	<u>ASB</u>	ESTOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS559G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz Other
WBS559G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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ddress Fax		ew Castle Aver uge LA 708 ² 4732		·	Date/Time Due 7	7/14/97 	9 15 ecial Ha			В	illing Nu		
Project	020601 RA	G1 WESTBAN	K ASBESTOS								111314	01	
		Appearance		Treatment			rous		ibrous	7	Opt		_
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other		1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	1 Cellulose 2 Glass 3 Min Woo 4 Synthetic 5 Other 6 Wollastor	ol	1 Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 16 Perlite			Prope	i s	-
			• *		None Detected*	7 Hair	brous	7 Other	brous	, #	3 Specify	E I Panilei	
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1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotale 2 Amosate 3 Anthophylite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite 7 Other	I W Y I W Y I Shought I Saporty	perties
						Fibrous	Non Fibrous	# You 1 Lon	E I Puralist d 2. Symmetric. gb. 3 Obligue
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EMSLAnalytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

OFFICIAL CHAIN OF CUSTODY RECORD

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 15 1997

Ref Number IN97471

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

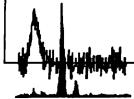
			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1014G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile	1			Quartz
	_	Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBS1014G02		Brown	Crushed	< 1% Ch	rysotile	1		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBS1014G03		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBS1027G01		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other
WBS1052G01		Brown Non Fibrous Homogeneous	Crushed		rysotile ocidolite		~ ~		Quartz Other
WBS1052G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	-				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

1

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 15 1997

Ref Number IN97471

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

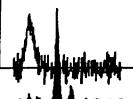
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBESTOS</u> % TYPE	<u>NONAS</u> % FIBROUS	<u>BESTOS</u> % NONFIBROUS
WBS1052G03	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS560G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS235G01	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS235G02	-	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		80% Quartz 20% Other
WBS235G03	_	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		80% Quartz 20% Other
WBS927G01		Brown Non Fibrous Homogeneous	Crushed	2% Chrysotile 1% Crocidolite		80% Quartz 17% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

2

EMSL Analytical, Inc. Indianapolis, Indiana 46250 Phone (317) 570-5802 Fax

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 15 1997

Ref Number IN97471

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

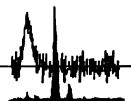
Project 020601 RAG1 WESTBANK ASBESTOS

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBE</u> %	STOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS927G02	(6) (6)	Brown Non Fibrous Homogeneous	Crushed	2% Chr < 1% Cro	-				6 Quartz 6 Other
WBS927G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr < 1% Cro	-				6 Quartz 6 Other
WBS927G04		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr	ysotile				o Quartz o Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198-1 Method

Jane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

dress Fax		w Castle Aver uge LA 708 - 4732		_	ate/Time Due		Handling	Billing N	
roject	020601 RA	G1 WESTBAN	K ASBESTOS						
Brown Grey Tan White Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	3 Dissolved 4 Ashed	Asbestos Resul 1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Croadolite	ts Fibrous 1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite	Non Fibrous 1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix [6 Perlite	Pro	perties
Sai	mple	Location	Appearance		% ASBESTO	7 Hair Fibrou	7 Other	1. Straight 3. Specify # P B 1 Yes 1 Low 2 No 2 No 3 Hag	d 2. Symmetric.
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Fax	(504) 363 -					Spec	ial Handling		В	illing Nu IN974	
Project	020601 RAG	31 WESTBANI	K ASBESTOS							111374	
		pearance		Treatment		ts Fibro		Fibrous]	Opti	cal
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonit		em arbonate		I W vv 1. Straighs 3. Specify	1 3
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EPA 7500-53

Green to Report Yellow Returns with Warrant

6-08861

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 16 1997

Ref Number IN97490

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 026010 RAGI-WESTBANK ASBESTOS

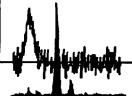
			SAMPLE	<u>ASBESTOS</u>		NONASBI	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS403G01	(b) (6)	Brown	Crushed	< 1% Chrysotile			80%	Quartz
		Non Fibrous Homogeneous					20%	Other
		Tiomogeneous						
WB\$403G02		Brown	Crushed	< 1% Chrysotile			80%	Quartz
		Non Fibrous					20%	Other
		Homogeneous						
WBS714G01		Brown	Crushed	2% Chrysotile			80%	Quartz
		Non Fibrous		1% Crocidolite			17%	Other
		Homogeneous						
WBS763G01		Brown	Crushed	< 1% Chrysotile			80%	Quartz
		Non Fibrous	Crusiiou	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Other
		Homogeneous			1			
WBS1043G01		Brown	Crushed	None Detecte	d		80%	Quartz
		Non Fibrous	Crusiicu	10000				Other
		Homogeneous						
WBS1043G02		Brown	Crushed	3% Chrysotile			80%	Quartz
		Non Fibrous		,				Other
		Homogeneous						
(t			1	<u> </u>				

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

EMSL Analytical, Inc. Indianapolis, Indiana 46250

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 16 1997

Ref Number IN97490

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

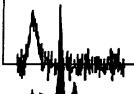
Project 026010 RAGI -WESTBANK ASBESTOS

			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS404G01	b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS404G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous		,					
WBS404G03		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous			•			20%	Other
		Homogeneous							
WBS718G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			20%	Other
		Homogeneous							
WBS718G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS718G03		Brown	Crushed	< 1% Ch	rysotile	1		80%	Quartz
		Non-Fibrous		< 1% Cro	ocidolite			20%	Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

EMSL Analytical, Inc. Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 16 1997

Ref Number IN97490

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 026010 RAGI-WESTBANK ASBESTOS

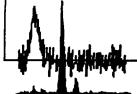
			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		<u>NONASB</u>	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS236G01	(b) (6)	Brown	Crushed	2% Ch	rysotile	1		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			18%	Other
WBS1044G01		Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous						20%	Other
WBS872G01		Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous				_		20%	Other
WBS232G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS224G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous						20%	Other
WBS224G02		Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous						20%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198-1 Method

Jane Wasilewski Analyst

Approved Signatory



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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 16 1997

Ref Number IN97490

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 026010 RAGI -WESTBANK ASBESTOS

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	i
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	% NONFIBRO	ous
WBS224G03	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cr	•			80% Quartz 20% Other	

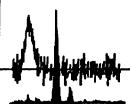
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski

Analyst

Approved Signatory



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Analysis perfermed by EMSL of (ndianapolis (NVLAP Air and Bulk #200188-0).

dress	-	ew Castle Aver ouge LA 7081		C	ate/Time Due	7/16/97 Spe	9 30 cial Har			В	illing Nu	ımber
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roject		AGI -WESTBAN	K ASBESTOS			· · · · · · · · · · · · · · · · · · ·						
Brown Grey Tan White Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	Appearance 1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	Treatment 1 Teased 2 Crushed 3 Dissolved 4 Ashed	Asbestos Result Chrysotile Amosite Anthophyllite Tremolite Actinolite Croadolite	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastoni		Non I Quartz Mica Gypsum Cal Car Matrix Perlite			Opti Prope	
					0 None Detected	7 Hair	rous	7 Other	brous	#	P B I Yes I Low 2. No 2. Med	E J Perellel
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

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K ASBESTOS										
	Treatment	Asbestos Resu		Fibrous		Fibrous		Optio		İ
	Dissolved Ashed	1 Chrysottle 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actionlite 6 Croadolite 0 None Detected	2 Gla 3 Min 4 Syn 5 Oth	n Wool nthetic ner illastonite	1 Quartz 2 Mica 3 Gypsur 4 Cal Ca 5 Matrix 6 Perlite 7 Other	n	1 V 2.S 3 S	FTOPE:	1 5	,
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EMSE Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

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Project	026010 R	AGI -WESTB	ANK ASBESTOS								<u> </u>		
		Appearance		Treatment	Asbestos Resi	ults	Fibro	us		ibrous	- J	Opti	
Brown Grey Tan White	6 Vanoua 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrou 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	4 Ashed	1 Chrysotie 2 Amoste 3 Anthophylite 4 Tremohte 5 Actunolite 6 Crocidolite 0 None Detected	3 4 5 6	Cellulose Glass Min Wool Synthetic Other Wollastorute Hair		i Quartz Mica Gypsum Cal Carl Matrix Perlite Other	bonate		Prope	i i
					o Noise Detected	<u>'</u>	Fibre	ous	Non-F	ibrous	#	P B I Yes I Low 1 No 2 Med 3 High	E I Parallel
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

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(11/96)

page 2062 **CHAIN OF CUSTODY RECORD** PROJ NO OLOGORAGI **PROJECT NAME** Wistbank Asbestos NO SAMPLERS (Signature OF Magaretm REMARKS MANDEMY DULL CON AINERS STATION LOCATION STA NO TIME EPA Tra# W85 132 002549 1422 641 WBS 224 6-003606 1555 6-003607 1558 WB5224 1601 X Rejunguished by (Signature) Received by Isignature Received by (Signature) Date / Time Relinquished by (Signature) Date / Time 7/15/97 09-Relinquished by (Signature) Date / Time Received by (Shankrure) Relinquished by (Signature) Received by (Signature) Date / Time Remarks Fed Ex 3903750443 page 2 of 2 Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time (Signature) Shipped by Airbill Number Distribution White Accompanies Shipment Pink to Coordinator Field Files Green to Report Yellow Returns with Warrant EPA 7500-53 (11/96)

ULLICIAL

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Barbara Storey

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 17 1997

Ref Number IN97513

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS SITE 020601RAG1

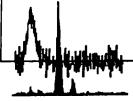
			SAMPLE	ASB	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROU
WBS869G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS225G01		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	ocidolite				Other
		Homogeneous							
WBS562G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous			•	1			Other
		Homogeneous	1						
WBS562G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS532G01		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous		l [}
WBS532G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Barbara Storey

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 17 1997

Ref Number IN97513

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project WESTBANK ASBESTOS SITE 020601RAG1

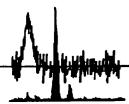
			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROU
WBS532G03	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other
WBS630G01		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasilewski Analyst Approved

Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0)

Client	Ecology & Env	ıronmental		Logged 7/	16/97	TAT 1	Day
Address	11550 New Cas Baton Rouge L		D	ate/Time Due 7/	17/97 9 58	AM	
Fax	(504) 363 - 4939				Special Ha	ndling	Billing Number
Project	WESTBANK ASB	ESTOS SITE 0206011	RAG1				IN97513
	Appeara	ince	Treatment	Asbestos Results	Fibrous	Non-Fibrous	Optical
l Brown 2 Grey 3 Tan 4 White 5 Red		orous 1 Homogeneous on-Fibrous 2 Heterogeneous her 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	Chrysotile Amoste Anthophyllite Tremolite Actinolite Croadolite None Detected	I Cellulose 2 Glass 3 Min. Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite 7 Other	Properties
Sa	mple Loc	cation Appearance	Treatment	% ASBESTOS	Fibrous Type %	Non-Fibrous	# P E F E Parallel 2 Parallel 2 Systematric 3 Obloque
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

OFFICIAL CHAIN OF CUSTODY RECORD

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Shipped by (edex				Airbill Number 36	1637	5043	7					
•	Dis	tributi			hipment Pink to Coordin	ator Field Fil	es						

EPA 7500-53

6- U887i

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Larry Roedl

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Friday July 18 1997

Ref Number IN97520

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

			SAMPLE	<u>ASBESTOS</u>		<u>NONASB</u>	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS405G01	-(b) (6)	Brown	Crushed	< 1% Chrysotile			80%	6 Quartz
		Non Fibrous		< 1% Crocidolite			20%	6 Other
l		Homogeneous						
WBS405G02		Brown	Crushed	< 1% Chrysotile			80%	6 Quartz
		Non Fibrous		< 1% Crocidolite				6 Other
ı		Homogeneous			1			
WBS405G03		Brown	Crushed	< 1% Chrysotile	_			6 Quartz
		Non Fibrous		-	i			6 Other
; 		Homogeneous		1				
WBS405G04	-	Brown	Crushed	< 1% Chrysotile			80%	6 Quartz
		Non Fibrous		< 1% Crocidolite			20%	6 Other
·		Homogeneous	I					
WBS564G01	-	Brown	Crushed	< 1% Chrysotile			80%	6 Quartz
Į		Non Fibrous		< 1% Crocidolite			20%	6 Other
_		Homogeneous						
WBS553G01		Brown	Crushed	< 1% Chrysotile		The state of the s	80%	6 Quartz
		Non Fibrous		< 1% Crocidolite			20%	6 Other
		Homogeneous						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaretz-Aulyo Margaret Phillips Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

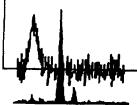
			SAMPLE	ASBE:	<u>STOS</u>		<u>NONASB</u>	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS567G01	b) (6)	Brown	Crushed	1% Chry					6 Quartz
		Non Fibrous Homogeneous		1% Cro	cidolite			18%	6 Other
WBS567G02		 Brown	Crushed	< 1% Chry	/sotile	1		80%	% Quartz
		Non Fibrous Homogeneous		< 1% Cro	cidolite			20%	6 Other
VBS634G01		Brown	Crushed	< 1% Chry	/sotile			80%	% Quartz
		Non Fibrous Homogeneous		< 1% Croc	cidolite			20%	6 Other
VBS630G02		Brown	Crushed	< 1% Chry	/sotile			80%	6 Quartz
		Non Fibrous Homogeneous		< 1% Croc	cidolite	ı		20%	6 Other
VBS868G01		 Brown	Crushed	< 1% Chry	rsotile		<u> </u>		% Quartz
ļ		Non Fibrous Homogeneous		1				20%	6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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**The Applies Parformed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

Cilent		Environme			Logged	7/17/97	TAT 1	Day
ddress		/ Castle Aver ge LA 7081			Date/Time Due	7/18/97 9 30	O AM	
Fax	(504) 363 -					Special Ha	andling	Billing Number
IdA	(504) 500 -	4732						IN97520
roject	020601 RAG	SI WESTBANK	ASBESTOS					
Brown	Ap 6 Vanous	pearance I Fibrous	1 Homogeneous	Treatment	Asbestos Result	S Fibrous	Non Fibrous	Optical Properties
Grey Tan White Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite	2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite	1
				J	0 None Detected	7 Hair	7 Other Non-Fibrous	1 W vy 2. Straight 3 Specify P B 1 Yes 1 Low 1 Parallel
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1655	67602		· •	0-				2 1 1 1

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

ldress _	Baton Rou	v Castle Aver		, and a second	Pate/Time Due	7/18/97	9 30 Special Har			B	illing N	lumbe
Fax	(504) 363 ·		/ ACDECTOC		ı						IN97	520
Project		GI WESTBANI opearance		Treatment	Asbestos Resi	ults	Fibrous	Non	Fibrous		Or	otical
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	1 Cellu 2 Glass 3 Min 4 Syntl 5 Othe	ulose Wool hetic or astonite	I Quartz 2 Mica 3 Gypsun 4 Cal Ca 5 Matrix 6 Perlite 7 Other	1	7		Derties
		1					Fibrous	Non I	Fibrous	# Layers	P B I Yes Low 2 No 1 Max 3 High	E Purallel 2. Systemetrin 3. Oblique
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ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD

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	- 40-31		<u> </u>					(Signature)				<u> </u>			•••			
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			Dis	tribut	ion W	hite Accom	panies Si	hipment Pink to Coore	dinator Field Fi	les				}				

EPA 7500-53 (111/96)

Green to Report Yellow Returns with Warrant

6- 1)8872

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Barbara Storey

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 23 1997

Ref Number IN97549

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

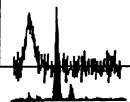
0.44401.5	1.00471011	ADDEADANCE	SAMPLE TREATMENT	<u>ASB</u> %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
SAMPLE	LOCATION b) (6)	APPEARANCE				70			
WBS236G04		Brown	Crushed	< 1% Ch	-				Quartz Other
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			60%	Other
WBS236G02		Brown	Crushed	< 1% Ch	rysotile				Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite	1		60%	Other
				 					
WBS236G03		Brown	Crushed	< 1% Ch	•				Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			60%	Other
WBS236G05		Brown	Crushed	2% Ch	rysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Cr				58%	Other
WBS695G01		Brown	Crushed	< 1% Ch	rysotile	7		40%	Quartz
		Non Fibrous Homogeneous						60%	Other
WBS1000G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188 0)

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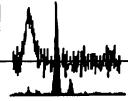
Project 020601 RAGI WESTBANK ASBESTOS

			SAMPLE	ASBE	STOS		NONASBI	ESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1000G02	(b) (6)	Brown	Crushed	Nor	ne Detected				Quartz
		Non Fibrous		Ì		1		20%	Other
		Homogeneous							
WBS853G01		Brown	Crushed	Nor	ne Detected	<u> </u>		80%	Quartz
		Non Fibrous							Other
		Homogeneous							
WBS853G02		Brown	Crushed	< 1% Chr	vsotile	T -		80%	Quartz
		Non Fibrous	0.20//00	< 1% Cro	•				Other
		Homogeneous							
WBS853G03		Brown	Crushed	< 1% Chr	vsotile	'		80%	Quartz
1120000000		Non Fibrous	Orusilea	< 1% Cro					Other
1		Homogeneous	1			1			
WBS853G04		Brown	Crushed	< 1% Chr	vsotile	_ 		80%	Quartz
		Non Fibrous	Orusiica	1,70 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ļ			Other
		Homogeneous							
WBS853G05		Brown	Crushed	 < 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
	<u> </u>	Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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Jane Wasılewskı Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Barbara Storey

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 23 1997

Ref Number IN97549

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

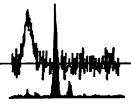
			SAMPLE	ASBESTOS		NONASBE	<u>stos</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	%	FIBROUS	%	NONFIBROUS
WBS953G01	(b) (6)	Brown	Crushed	< 1% Chrysotile			40%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite			60%	Other
WBS516G01		Brown	Crushed	< 1% Chrysotile			80%	Quartz
1		Non Fibrous Homogeneous		< 1% Crocidolite	_		20%	Other
WBS516G02	_	Brown	Crushed	< 1% Chrysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite			20%	Other
WBS516G03		Brown	Crushed	< 1% Chrysotile		· ++++	80%	Quartz
1		Non Fibrous Homogeneous		< 1% Crocidolite			20%	Other
WBS516G04		Brown	Crushed	< 1% Chrysotile			80%	Quartz
		Non Fibrous Homogeneous		•			20%	Other
-]		' -	_		
WBS818G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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vlaraaret Phillips Analyst

Approved Signatory



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Ecology & Environmental
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Wednesday July 23 1997

Ref Number IN97549

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

			SAMPLE	<u>ASBESTOS</u>	NONAS	BESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIBROUS	%	NONFIBROUS
WBS818G02	(b) (6)	Brown Non Fibrous	Crushed	None Detected			Quartz Other
		Homogeneous		•			
WBS818G03	_	Brown	Crushed	< 1% Chrysotile		80%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite			Other
WBS818G04		Brown	Crushed	< 1% Chrysotile		80%	Quartz
		Non Fibrous Homogeneous			_	20%	Other
WBS818G05		Brown	Crushed	< 1% Chrysotile		80%	Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite	i i	20%	Other
WBS1116G01		Brown	Crushed	< 1% Chrysotile			Quartz
		Non Fibrous Homogeneous		< 1% Crocidolite	L	20%	Other
WBS1116G02		Brown	Crushed	1% Chrysotile		80%	Quartz
		Non Fibrous Homogeneous		1% Crocidolite		18%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips Analyst

Approved Signatory

W HI WHITE

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

EMSL Analytical, Inc. Indianapolis, Indiana 46250 Phone (317) 570 5802 Fav.

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Barbara Storey

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 23 1997

Ref Number IN97549

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAGI WESTBANK ASBESTOS

			SAMPLE	<u>ASBI</u>	<u>ESTOS</u>		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1116G03	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	6 Quartz
		Non Fibrous		< 1% Cr	ocidolite			20%	6 Other
		Homogeneous							
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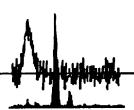
Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Maraaret Phillips

Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL
CHAIN OF CUSTODY RECORD

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OFFICIAL CHAIN OF CUSTODY RECORD

PROJECT NAME PROJ NO 626661 RAGI Westbank Asbestes NO SAMPLERS (Signature) OF Holn Sym / Horthage/Magare Am/ Decna Defalme REMARKS CON TAINERS COMP DATE TIME **STATION LOCATION** STA NO EPA Tas 1997 WBS 516 1645 7-21 6-002589 601 WBS 516 X 1650 6-00 2590 G01 WB5516 X X 1655 6- 40 2591 603 VBS 516 X X 1700 6-00 2592 WBS 818 7-21 1700 6-00 2584 GOL WBS 818 X 1705 602 6-00 2588 WBS 818 K 1710 6-002587 GOZ W35 818 V 1715 6-002586 604 WBS 819 G05 1720 6-00 25 85 WBS III X フースト 1535 Χ 6 00 2593 601 WB61116 × 1540 6-0 02595 GOZ MPSIIIP 1545 6-002596 603 Mckerioth Relinquished by (Signature) Date / Time Received by, (Sygnatule) Relinquished by (Signature) Date / Time Received by (Signature) 7172197 09 300 -Relinquished by (Signature) Date / Time Date / Time Received by (Signature) Relinquished by (Signature) Received by (Signature) Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time Remarks (Signature) Shipped by Airbill Number Distribution White Accompanies Shipment Pink to Coordinator Field Files

EPA 7500-53

Green to Report Yellow Returns with Warrant

6- 1000 12

7/22/97 TAT 1 Day **Ecology & Environmental** Client Logged Address 11550 New Castle Avenue Date/Time Due 7/23/97 9 30 AM Baton Rouge LA 70816 Special Handling Billing Number (504) 363 4732 Fax IN97549 Project 020601 RAGI WESTBANK ASBESTOS Asbestos Results Fibrous Non Fibrous Appearance Treatment Optical **Properties** 6 Various Chrysotile Cellulose 1 Quartz 1 Homogeneous 1 Brown 1 Fibrous Teased Glass Min Wool 2 Grey 7 Black Non Fibrous 2 Heterogeneous Crushed Mica Gypsum Cal Carbonate 3 Tan 4 White Anthophyilite 8 Silver 3 Other 3 Other 3 Dissolved Synthetic 9 Blue 4 Layers (#) Tremolite 4 Ashed 5 Actinolite 6 Crocidolite Matrix Perlite 0 Orange Other 5 Red Wollastonite 0 None Detected Other **Fibrous** Non Fibrous Layers % ASBESTOS Sample Location Appearance **Treatment** Type Type 1,711 154 WBS 2366UH J , 54 - 41 WBS +36 (-0)2 60 Y 40 2 WBS 236603 40 154 2 WBS 2366-05 E 11 40 54 WBS6956U1 80 54 WBS1603601 2 Ε 1 11 S 602 В E 1 80 М S WBS 853601 R E

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Analyst	$\frac{7/33/9}{\text{Computer}}$	Date	

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Client	•	& Environme			00	7/22/97			TAT	1 Day			
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					O None Detected	7 Hair Fib	rous	7 Other Non F	brous	#	P B	E 1 Parallel	
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Ecology & Environmental Logged 7/22/97 TAT 1 Day Client 11550 New Castle Avenue Date/Time Due 7/23/97 9 30 AM Address Baton Rouge LA 70816 Special Handling **Billing Number** (504) 363 - 4732 Fax IN97549 020601 RAGI WESTBANK ASBESTOS Project **Appearance Treatment Asbestos Results Fibrous** Non Fibrous Optical **Properties** 6 Various Fibrous Teased Chrysotile Cellulose Quartz 1 Brown 1 Homogeneous Glass Min Wool 7 Black Non-Fibrous Heterogeneous Crushed 2 Mica 2 Grey 3 Dissolved 4 Ashed Anthophyllite 13 Gypsum 14 Cal Carbonate 3 Tan 8 Silver Other Other Synthetic 4 Layers (#) Tremolite 4 White 9 Blue 0 Orange Actinolite Other Матлх 5 Red Crocidolite
None Detected Wollastonite 6 Perlite Hair 7 Other **Fibrous** Non-Fibrous Layers % ASBESTOS Туре Sample Location Appearance Treatment Type 80 1- <190 155 1711 6-<170 20 a Ε WBS 516 601 1-2190 20 171 6-219-2 2 WBS516G02 1-<190 180 171 6-<170 7120 2 WBS 516G03 111 1-2170 80 54 20 WBS516G04 80 155 5 7 20 Е WBS 818601 l II I 180 М S 2 20 WBS 818602 B Ε 1-<170 1.55 171 80 2 6-2170 20 2 WBS 818603 80 S 2 WBS818604 Analyst Mayaut & Phillips Date 7/23/97 Computer Date

Client		Environme			Logged	7/22/97		TAT	1 Day		4
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-	(= 1)									IN975	49
Project		SI WESTBANK	(ASBESTOS		_						
1 Brown	6 Various	Fibrous	1 Homogeneous	Treatment 1 Teased	Asbestos Result Chrysotile	1 Cellulose	! Quart	-Fibrous	-	Option Prope	
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	2 Heterogeneous 3 Other 14 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 Glass 3 Min Woo 4 Synthetic 5 Other 6 Wollaston	4 Cal C 5 Matri 6 Perlite	Carbonate x		M I Wavy 2 Strugts 3 Specify	3 1 2
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 24 1997

Ref Number IN97558

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

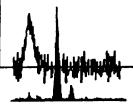
			SAMPLE	<u>ASBI</u>	ESTOS		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS262G03R	o) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		I				20%	Other
		Homogeneous				1			
WBS407G01		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS1129G01		Brown	Crushed	2% Ch	rysotile	-		80%	Quartz
		Non Fibrous		< 1% Cr	•				Other
		Homogeneous							
WBS1129G02		Brown	Crushed	2% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cr	ocidolite	}		18%	Other
		Homogeneous							
WBS1051G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous				1		20%	Other
		Homogeneous				1			
WBS1051G02		Brown	Crushed	No	ne Detected	1		80%	Quartz
		Non Fibrous	1					20%	Other
		Homogeneous				<u>'</u>			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

ane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Thursday July 24 1997

Ref Number IN97558

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

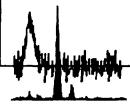
Project 020601 RAG1 WESTBANK ASBESTOS

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBESTOS</u> % TYPE	<u>NONASE</u> % FIBROUS	<u>BESTOS</u> % NONFIBROUS
WBS577G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		80% Quartz 20% Other
WBS577G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS413G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		80% Quartz 20% Other
WBS413G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile	·	80% Quartz 20% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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		Appearance		Treatment	Asbestos Resu	lts Fıbr	ous	Non F	brous		Opt	cal
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	1 Chrysoule 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastoni		l Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite			Prope	erties
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		ppearance		Treatment	Asbestos Resu	lts Fit	rous		brous	-	Opt	ical erties
Brown Grey Tan White Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	2 Glass 3 Min Wo 4 Synthetic 5 Other 6 Wollasto 7 Hair	ol :	1 Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite 7 Other			i Wavy 2. Straight 3. Specify	i i i i i i i i i i i i i i i i i i i
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

OFFICIAL CHAIN OF CUSTODY RECORD

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Shipped by	Lec	BX					Airbill Number 351	3750	341)							
-	•	Dist	ributio			•	nipment Pink to Coordina w Returns with Warrant	ator Field Fil	ns		L	·					

EPA 7500-53 (11/96) 6- 08874

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Friday July 25 1997

Ref Number IN97601

OK D FOR PAYNENT

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 - WESTBANK ASBESTOS

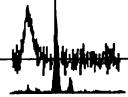
			SAMPLE	<u>ASBE</u>	STOS		<u>NONASB</u>		
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS228G01	(b) (6)	Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS228G02		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS143G01		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous	l	< 1% Cro	cidolite			20%	Other
		Homogeneous	1	<u></u>					
WBS1024G01		Brown	Crushed	Nor	e Detected	<u> </u>			Quartz
		Non Fibrous				l		60%	Other
		Homogeneous							
WBS1024G02		Brown	Crushed	Nor	e Detected	1		40%	Quartz
		Non Fibrous						60%	Other
		Homogeneous							
WBS126G01		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous	I						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188 0)

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POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 - WESTBANK ASBESTOS

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBE %	STOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS432G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				6 Quartz 6 Other
WBS432G02		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				6 Quartz 6 Other
WBS406G01		Brown Non Fibrous Homogeneous	Crushed	2% Ch < 1% Cro	-				6 Quartz 6 Other
WBS406G02		Brown Non Fibrous Homogeneous	Crushed	2% Ch < 1% Cro	-				Quartz Other
WBS1368G01	_	Brown Non Fibrous Homogeneous	Crushed	2% Chi < 1% Cro					Quartz Other
WBS980G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chi	ysotile				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips

Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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Ref Number IN97601

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 - WESTBANK ASBESTOS

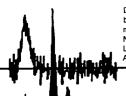
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	<u>ASBESTOS</u> % TYPE	<u>NONASB</u> % FIBROUS	<u>ESTOS</u> % NONFIBROUS
WBS980G02	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile < 1% Crocidolite		80% Quartz 20% Other
WBS980G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Chrysotile		80% Quartz 20% Other
WBS980G04		Brown Non Fibrous Homogeneous	Crushed	2% Chrysotile < 1% Crocidolite		80% Quartz 18% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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Client	Ecology	& Environmen	ital		Logged	7/24/97		٦	ΓAT 1	Day
ddress		ew Castle Aven		D	ate/Time Due	7/25/97	9 00	MA C		
₽av.		_	_				Special Ha	andling		Billing Number
Fax	(504) 363	3 - 4/32			1					IN97601
Project	020601 RA	AG1 WESTBAN	K ASBESTOS							
1 Brown	6 Various	Appearance ! Fibrous	1 Homogeneous	Treatment 1 Teased	Asbestos Resu		Fibrous	Non Fit	orous	Optical Properties
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non Fibrous 3 Other	HeterogeneousOther	2 Crushed 3 Dissolved 14 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	2 Glas 3 Min 4 Synt 5 Othe	s Wool hetic	2 Mica 3 Gypsum 4 Cal Carbo 5 Matrix 6 Perlite	nate	3 W vy 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
					0 None Detected	7 Наг		7 Other Non Fib		——————————————————————————————————————
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alyst	£	-1/00	Date _	7/25	<u> </u>	er			Da	ite

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

ddress		/ Castle Aver ge LA 7081		C	oate/Time Due	7/25/97 9 00) AM 	
	(504) 363 -	-			Billing Number			
	020601 RAG		NK ASBESTOS		1			IN97601
Project		pearance		Treatment	Asbestos Results	s Fibrous	Non-Fibrous	Optical
I Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	Homogeneous Heterogeneous Other Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophylite 4 Tremolite 5 Actmolite 6 Crocadolite	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite	l Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite	Properties
			• •		0 None Detected	7 Hair Fibrous	7 Other Non-Fibrous	1 January
Sam	nple	Location	Appearance	Treatment	% ASBESTOS	Type %	Type %	Layers 1 Law 1 Prodet 2 Symmetry 3 Chapter 1 C
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OFFICIAL. CHAIN OF CUSTODY RECORD

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MBS228G-DI	1-23-91	0923 1-23-91	1	(b) (6)			1				6	-0036	93	
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WBS 143-01		_		(b) (6)			1	V			6	00254	11	
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NBS1024	L	1049	V		L						6	-0036	12	
W85126	7-3317	1400	V	(b) (6)			Ĭ	V			į	-0036		
WB5432	7-2397	1442	1				1	V			1	- 0031		
WBS 432	1 23-97		V			,	١				1	0036		
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EPA 7500-53

Green to Report Yellow Returns with Warrant

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CHAIN OF	CUSTODY	RECORD

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Relinguish	ed by (Signature	·)		Date	Time	Received by (Signature	J	Reli	nquis	hed b	y (Si	gnatui	re)	Date	Time	Received by (Signature)
Relinquist	ed by	Signature)		Date	Time	Received for Laborato (Signature)	ry by		Dat	e /Tı	me	F	Remar	ks		
Shipped b	Fed	EX					Airbill Number 390	37503	62								
		Dis	tribut	on V	Vhite Accom	panies S	hipment Pink to Coordin	ator Field Fi	les				L		·		

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Monday July 28 1997

Ref Number IN97612

OK D FOR PAPATNI

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

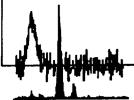
			SAMPLE	ASBE	STOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS124G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS124G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS1023G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS1023G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	ocidolite			20%	Other
WBS816G01		Brown	Crushed	2% Ch	rysotile	-			Quartz
		Non Fibrous Homogeneous						18%	Other
WBS816G02		Brown	Crushed	< 1% Chi	ysotile				Quartz
		Non Fibrous Homogeneous						20%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Murgaret Phillips
Analyst

Approved Signatory



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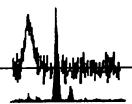
			SAMPLE	ASBE	STOS		NONASB	<u>ESTOS</u>	:
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1030G01	(b) (6)	Brown	Crushed	< 1% Ch	rysotile	T		80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous		_	_		_		
WBS414G01		Brown	Crushed	< 1% Ch	rysotile	ı		80%	Quartz
		Non Fibrous		< 1% Cro	cidolite			20%	Other
		Homogeneous					_		ì
WBS414G02	-	Brown	Crushed	< 1% Cro	cidolite			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS398G01		Brown	Crushed	< 1% Chi	rysotile			80%	Quartz
		Non Fibrous	·					20%	Other
		Homogeneous							
WBS578G01		Brown	Crushed	< 1% Chi	ysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS801G01		Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous						20%	Other
İ		Homogeneous							
		·	J						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also "# of Layers refers to number of separable subsamples

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Margaret Phillips Analyst

Approved Signatory



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Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

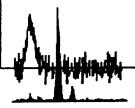
			SAMPLE	<u>A\$B</u>	<u>ESTOS</u>	<u>NONASBESTOS</u>				
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS	
WBS374G01	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	nrysotile				Quartz Other	
WBS374G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile				Quartz	

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also '# of Layers' refers to number of separable subsamples

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Margaret Phillips
Analyst

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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0)

OFFICIAL CHAIN OF CUSTODY RECORD

PROJ NO DLOW PIRAGI	PROJE			Asbe	Stas		NO		/_		//		7/	7	
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WBS 124 1 602 1 WBS 1023 7-24	IOHO			b) (6)				X				<u></u>	- 00	3699	ì
	41043			(1)	\downarrow			×				6-	00	367°	?
WBS816 7-14	11.25	X		(b) (6)			1	×						3635	
602 7-24	1130) X			V		1	X				6-	00	5637	7
WBS 1030 1-21	1 1150	X		(b) (6)			1	X				6-	00 3	638	
WBS 414 7-21	1337	' ×						X				l .		677	
GOI 7-21 WBS 4114 COZ 7-21 WBS 398 GOI 7-21	1 1331	ēΧ			<u> </u>			X				1		678	
WB3398 7-2"	1 153	5 x		b) (6)			1	×				1		1675	
WBS801 7-21 WBS801 7-21 WBS374 7-2 WBS314 7-2 WBS314 7-21	162	, X					1	×				6	-00	5639	
MBS801 7-2	1 1605	$\int X$					1	X.				6	-0	025	79
WBS 374 7-2	4/165	X					}	<u> </u>				١.		364	
WBS314 1-24	1658	Х					i	X				6	-0	036	
		\perp						1					ML		
Relinquished by	(Signatu	re)	7	Date -U-97	/Time	Received by Isignation	1/25/9 61 AA	Relinquis	hed b	y (Signi	àture)		Date /	Time	Received by (Signature)
Relinquished by	(Signatu	re)			/Time	Received by Isigna	oture)	Relinquis	hed by	y (Signa	ature)		Date /	Time	Received by (Signature)
Relinquished by	(Signatu	re)		Date	/Time	Received for Labor (Signature)	ratory by	Dat	te / Tir	ne	Rema	rks			
Shipped by Fea	Ex					Airbill Number 30	903750	325							
	D	stribut	ion Wi	nite Accon	npanies S	hipment Pink to Con		les							

EPA 7500-53 (11/96)

6- 0888û

Client	Ecology &	Environme	ntal		Logged	7/25/97			TAT	1 Day			/
ddress		Castle Ave		D	ate/Time Due	7/28/97	9 00	AM					
						Spe	cıal Ha	ndling		Billi	ng Nu	mber	
Fax	(504) 363 -	4732									IN976	12	
Project	020601 RAG	i1 WESTBAN	K ASBESTOS		1	·	_ ····					·	
	Ар	pearance		Treatment	Asbestos Resu		ous		Fibrous	_	Opti		-
1 Brown 2 Grey	6 Various 7 Black	1 Fibrous 2 Non Fibrous			1 Chrysotile 2 Amosite	1 Cellulose 2 Glass		l Quartz 2 Mica		_	Prope	rties	
3 Tan 4 White	8 Silver 9 Blue	3 Other	3 Other 4 Layers (#)	4 Ashed	3 Anthophyllite 4 Tremolite	3 Min Wool 4 Synthetic		3 Gypsun 4 Cal Ca					_
5 Red	0 Orange	,,_, ,,,_			5 Actinolite 6 Crocidolite	5 Other 6 Wollaston	te	5 Matrix 6 Perlite		1 W	VI Vy reight reculy	3	
•					0 None Detected	7 Hair		7 Other			В	E	
Sa	mple	Location	Appearance	Treatment	% ASBESTO		rous %	Type	ibrous %	# Layers	n ILow Vied Jitgh	1 Parallel 2 Sympotric 3 Oblique	
			1		1-210%	.,,,,,,		,,,,,	80	1	54	1 55 ¹¹	_
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<u> </u>	<u>'</u>		1		1-290			~	80		.54	1.55	<u>-</u> '
			2						18	(1 M	1 S	-
WBS 8	1/ / - 1			2 -		1				. <u> </u>) B	ſ E	-
MBZ 8	10401		, !		1-170			i <i>i</i>	80			· 55 ^L	-
			2	ļ. 1	1 - 17-13						<u>54</u>	, <u>, , , , , , , , , , , , , , , , , , </u>	-
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WBSI	030901							1			- (B	(E	ك
				-	1- <170	<u> </u>		1_	80	1	54	, 5 ¹¹ 5	_1
			2	2	6-4170		_	7	20		l ^M	1 s	
WBS4	14601		1						-	3	B - (E	,

Analyst Margaret & Phillip Date		Date	
71101 And And Inc. 2000 F. 75th Ot. Out. 450 Inc.	d 10 40050		

7/25/97 TAT 1 Day Client **Ecology & Environmental** Logged Address 11550 New Castle Avenue Date/Time Due 7/28/97 9 00 AM Baton Rouge LA 70816 Special Handling Billing Number (504) 363 4732 Fax IN97612 Project 020601 RAG1 WESTBANK ASBESTOS Treatment Asbestos Results **Fibrous** Non Fibrous Optical Appearance **Properties** 6 Various Chrysotile 1 Cellulose 2 Glass 1 Quartz 1 Brown Fibrous 11 Homogeneous 1 Teased 2 Crushed 3 Dissolved 2 Mica 3 Gypsum 2 Grey 3 Tan 4 White Amosite Anthophyllite 7 Black Non Fibrous Heterogeneous 3 Min Wool 8 Silver Other 3 Other 4 Cal Ca 5 Matrix Tremolite 4 Synthetic Cal Carbo 9 Blue Layers (#) 4 Ashed 0 Orange Actinolite 5 Other 5 Red Wollastorute 6 Perlite Crocidolite None Detected Hair 7 Other Non Fibrous Fibrous Layers % ASBESTOS Туре Sample Location Appearance Treatment Type % 80 6-<170 2 720 2 WBS414602 1-4170 55 80 5 ı ۵۵ 2 WBS 398601 1-4190 80 54 2 20 WBS 578601 80 1-21% 2 20 2 WBS 801601 80 ŧ 1-41% 7 20 WBS 374601 1-2170 180 20 Ε WB5374602 II м s В II S E

Analyst Mayout & Philles Date 7/28/97 Computer Date

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Maggie Lin

Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 29 1997

Ref Number IN97620

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

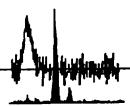
Project 020601 RAG1 WESTBANK ASBESTOS

			SAMPLE	<u>ASBESTOS</u>		NONASBESTOS	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	% TYPE	% FIB	ROUS %	NONFIBROUS
WBS739G01	(b) (6)	Brown	Crushed	None Detected			Quartz
		Non Fibrous				60%	Other
		Homogeneous					
WBS739G02		Brown	Crushed	< 1% Chrysotile		40%	Quartz
		Non Fibrous				60%	Other
		Homogeneous					
WBS739G03		Brown	Crushed	< 1% Chrysotile		70%	Quartz
1		Non Fibrous			ļ		Other
		Homogeneous					
	-						
WBS739G04		Brown	Crushed	2% Chrysotile			Quartz
		Non Fibrous				18%	Other
	-	Homogeneous					
WBS739G05	wer.	Brown	Crushed	2% Chrysotile		80%	Quartz
		Non Fibrous		•		18%	Other
		Homogeneous					ı
	-		T				
WBS739G06		Brown	Crushed	2% Chrysotile			Quartz
		Non Fibrous Homogeneous				18%	Other
l		<u> </u>				and a	

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

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Ecology & Environmental
11550 New Castle Avenue
Baton Rouge LA 70816

Tuesday July 29 1997

Ref Number IN97620

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

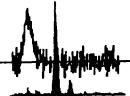
			SAMPLE	<u>ASB</u>	ESTOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS739G07	(b) (6)	Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
1		Non Fibrous Homogeneous	_			 		20%	Other
WBS739G08		Brown	Crushed	< 1% C	rysotile			80%	Quartz
		Non Fibrous Homogeneous						20%	Other
WBS412G01		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous Homogeneous							Other
WBS412G02		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous Homogeneous						20%	Other
WBS520G04		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	ocidolite			20%	Other
WBS1116G04		Brown	Crushed	< 1% Ch	rysotile	<u> </u>		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cr	•			20%	Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Baton Rouge LA 70816

Tuesday July 29 1997

Ref Number IN97620

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

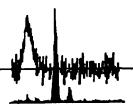
			SAMPLE	<u>ASBE</u>	<u>estos</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS1116G05	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cro	-				% Quartz % Other
WBS595G01		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected				% Quartz % Other
WBS595G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Chi < 1% Cro	-				6 Quartz 6 Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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EINNINGININEIN INC PROTECTION MACINON

OFFICIAL
CHAIN OF CUSTODY RECORD

PROJECT NAME PROJ NO 020601RAGI Westbank Asbestos NO SAMPLERS (Signature) Deena peralma / Mass 10 47 things - (Interes Tomme) REMARKS TAINERS TIME **STATION LOCATION** STA NO EM Tag# 0940 WBS 739 WBS 739 WBS 739 608 **W**85412 601 1041 WBS412 6102 1043 6-002514 NBS 520 1114 X WAS HT 6 Х 7-25 6-002515 GOH 1335 7-25 X 1340 6-002516 1530 6 00 2517 X 6 00 2518 Date / Time Relinquished by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) Received by (Signature) Mossiem Relinquished by (Signature) Date / Time Date / Time Received by (Signature) Relinquished by (Signature) Received by (Signature) Date / Time Relinquished by (Signature) Date / Time Received for Laboratory by Remarks (Signature) Airbill Number 2002177 Shipped by Distribution White Accompanies Shipment Pink to Coordinator Field Files Green to Report Yellow Returns with Warrant

/ EPA 7500-53 (11/96) 6- 088 4

Client	Ecology	& Environme	ntal		Logged	7/28/97			TAT	1 Day		
ddress		ew Castle Ave ouge LA 708		D	ate/Time Due	7/29/97	9 00) AM				
Fax	(504) 363		10			Sp	ecial Ha	ındling		В	lling Nu	
Project	020601 R	AG1 WESTBAN	K ASBESTOS		,						IN976	20
		Appearance		Treatment	Asbestos Resu	ilts Fil	orous	Non F	ibrous		Opti	cal
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 12 Heterogeneous 13 Other 14 Layers (#)	3 Dissolved 4 Ashed	1 Chrysotile 2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	l Cellulose 2 Glass 3 Min Wo 4 Synthetic 5 Other 6 Wollasto	ool :	1 Quartz 2 Mica 3 Gypsum 4 Cal Car 5 Matrix 6 Perlite		- - -	Prope	erties
<u></u>	ample	Location	Appearance		0 None Detected % ASBESTO		ibrous	7 Other Non F Type	ibrous %	# Layers	P B Yes Low Sed High	£ 1) Parallei 1) vitametri. 3 Oblique
	inpie	Location	Appearance	reament	ND		. 70	i j	1./)	1	11
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				i	1-21			· <u> </u>	40		,541	1.53
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	6	14	<u> </u>	<i></i>				7	-/	-	1 4 P	S
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	ر د ()7	<u>}</u>	2 ,				/	20	-	/ M) S
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Client ddress		Environme Castle Aver			Logged Date/Time Due	7/28/97 7/29/97	TAT 9 00 AM	1 Day
	Baton Roug	je LA 708 ²	16			Snor	wal Handling	Dilling North
Fax	(504) 363	4732				эрес	cial Handling	Billing Number IN97620
Project	020601 RAG	1 WESTBAN	K ASBESTOS					
	App 6 Various	pearance	1	Treatment	Asbestos Resi	Its Fibro	Non Fibrous	Optical Properties
1 Brown 2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other	1 Homogeneous 2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	2 Amosite 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 0 None Detected	2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair	2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix	I W W I 2 Straight 2 3 Specify
						Fibr		# I You I Low 1 Parallel
Sar	mple !	Location	Appearance	Treatment	% ASBESTO	OS Type	% Type %	Layers 2 Ved 2 Symmetric. 3 Obtoque
w BS	41260	i	1	<u> </u>	<u>/V D</u>		186	
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			1	·			I	P B E

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma **Ecology & Environmental** 11550 New Castle Avenue Baton Rouge LA 70816

Wednesday July 30 1997

Ref Number IN97633

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

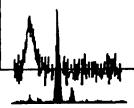
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBI %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	ESTOS %	NONFIBROUS
WBS298G06	(b) (6)	Brown Non Fibrous Homogeneous	Crushed		one Detected			80%	Quartz Other
WBS1015G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	•				Quartz Other
WBS1015G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cr	=				Quartz Other
WBS584G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	=				Quartz Other
WBS584G02		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	•				Quartz Other
WBS354G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch < 1% Cre	-				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



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Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

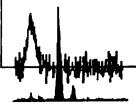
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBI %	ESTOS TYPE	%	<u>NONASB</u> FIBROUS	 NONFIBROUS
WBS354G02	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile			Quartz Other
WBS354G03		Brown Non Fibrous Homogeneous	Crushed	< 1% Ch	rysotile			Quartz Other
WBS354G04		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected			Quartz Other
WBS355G01		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected			Quartz Other
WBS355G02		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected			Quartz Other
WBS355G03		Brown Non Fibrous Homogeneous	Crushed	No	ne Detected			Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

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Wednesday July 30 1997

Ref Number IN97633

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

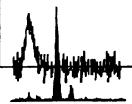
			SAMPLE	ASBE	<u>stos</u>		<u>NONASB</u>	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS401G01	(b) (6)	Brown	Crushed	< 1% Chr	ysotile			80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	cidolite			20%	Other
WBS401G02	-	Brown	Crushed	< 1% Chr	ysotile	1		80%	Quartz
		Non Fibrous Homogeneous		< 1% Cro	cidolite			20%	Other
WBS843G01		Brown Non Fibrous Homogeneous	Crushed	< 1% Chr					Quartz Other
WBS364G01	-	Brown Non Fibrous Homogeneous	Crushed	Non	e Detected				Quartz Other
WBS364G02	-	Brown Non Fibrous Homogeneous	Crushed	Non	e Detected				Quartz Other
WBS364G03		Brown Non Fibrous Homogeneous	Crushed	Non	e Detected				Quartz Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor titles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government All. NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

EMSL Analytical, Inc. Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax

6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Deena DePalma

Ecology & Environmental

11550 New Castle Avenue
Baton Rouge LA 70816

Wednesday July 30 1997

Ref Number IN97633

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

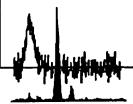
Project 020601 RAG1 WESTBANK ASBESTOS

			SAMPLE	<u>ASB</u>	<u>ESTOS</u>		<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	% NONFIBROUS
WBS364G04	(b) (6)	Brown Non Fibrous Homogeneous	Crushed	< 1% CI	nrysotile			80% Quartz 20% Other

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Jane Wasılewskı Analyst Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

OFFICIAL CHAIN OF CUSTODY RECORD

PROJECT NAME PROJ NO OZOGOIRAGI Westbank Asbestos SAMPLERS, (Signoture) Alma Releve/by/Thiro, f Deina Defelma NO OF REMARKS CON **TAINERS** STA NO DATE TIME STATION LOCATION 1997 WBS298GOG 7/28/97/09/3 4-002519 WBS1015601 7-28 0959 6-008520 #65105 GOZ 7-28 1002 6-002521 6-002522 WBS-584G017-28 1036 6-602523 WRS584602 7-28 11047 W85354 6-002524 1240 6-002525 1245 902 WB5354 6-002526 1250 603 WBS354 6-0025)7 1255 G04 NBS355 6-002528 1300 601 NBS 355 X 6-002529 χ 1305 602 WB5355 Χ 6-002530 1310 G03 JBS 401 7-28 1405 6-002531 GO 1 7-28 1408 6-002532 602 585 843 7-28 1430 6-002533 Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) 1-28-97 1640 Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature) 7-28-97 1640 Relinquished by (Signature) Date / Time Received for Laboratory by Date / Time Remarks (Signature) Airbill Number 5197211961 Fed Ex Shipped by Distribution White Accompanies Shipment Pink to Coordinator Field Files Green to Report Yellow Returns with Warrant

EPA 7500-53 (11/96)

6- 1188 -

ENVIRONMENTAL PROTECTION AGENCY

OFFICIAL CHAIN OF CUSTODY RECORD 2 of 2

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Jodg H	is,	<u>'</u>						CON		/×	5/				//			REMARKS	;
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WBS 364 GOI	7-28	1510	V		(b) (6)			1							6-00	253	4		
602 WES 364 GO3 WES 364 GO4	7-28	1514						1	/						6-00	_			
WB 364 G03	7-28	1517	1					1	V						6-00	253	6		
W85364 GO4	7-28	1520	/			<u> </u>	-	1 1	1						6-00	253	7		
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Relinquis					Date	Time	Received for Laborato (Signature)	ry by		Date	·/Tir	ne	R	emarl	KS .			.1	
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Client	Ecology &	Environme	ntal		Logged	7/29	/97			TAT	1 Day	,		
ddress		Castle Aver		D	ate/Time Due	7/30	/97	9 45	AM					
5					I		Spec	ial Har	ndling			Billing Number		
Fax	(504) 363 -	4/32			1							IN976	33	
Project	020601 RAG	1 WESTBAN	K ASBESTOS											
1 Brown	App 6 Various	Dearance	1 Homogeneous	Treatment	Asbestos Result Chrysoule	ilts	Fibro Cellulose	us	Non F	ibrous	-	Opt		
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non Fibrous 3 Other	2 Heterogeneous 3 Other 4 Layers (#)	2 Crushed 3 Dissolved 4 Ashed	2 Amoste 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	3 4 5	Glass Min Wool Synthetic Other Wollastonite	1	2 Mica 3 Gypsum 4 Cal Carb 5 Matrix 6 Perlite	onate		M) W vv 2 Streight	S 1 2.	
				,	0 None Detected	7	Hair Fibr	ous	7 Other Non Fi	brous	#	P B I Yes I Low 2 N 2 Med	E I Parallel	
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EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Ecology & Environmental Client

7/29/97 Logged

TAT 1 Day

Address

11550 New Castle Avenue Baton Rouge LA 70816

Date/Time Due

7/30/97

9 45 AM

Fax

(504) 363 4732

Special Handling

IN97633

Billing Number

020601 RAG1 WESTBANK ASBESTOS

	A	ppearance		Treatment	Asbestos Results	Fibro	ous		brous		Opti	cal
1 Brown 2 Grey 3 Tan 4 White 5 Red	6 Various 7 Black 8 Silver 9 Blue 0 Orange	1 Fibrous 2 Non-Fibrous 3 Other		i2 Crushed 3 Dissolved 4 Ashed	Chrysotile Amosite Amosite Tremolite Tremolite Crocidolite None Detected	Cellulose Glass Min Wool Synthetic Other Wollastoniti Hair	e	1 Quartz 2 Mica 3 Gypsum 4 Cal Cart 5 Matrix 6 Perlite 17 Other			Prope	erties
				·			rous		ibrous	# Layers	P B 1 Yes 1 Low 2 No 2 Yes 3 Hops	E 1 Parallel 2 Symmetry, 1 Obtave
Sam	ple	Location	Appearance	Treatment	% ASBESTOS	Туре	%	Туре	%			
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Date 7/30/97 Computer

Client Ecology & Environmental

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Logged 7/29/97

TAT 1 Day

	Baton Roug	e LA 708	16			Special Ha	ındling	Billing Numb	 he
Fax	(504) 363					·	·	IN97633	
roject			K ASBESTOS	Treatment	Asbestos Results	Fibrous	Non Fibrous		
Brown Grey Tan White Red	6 Various	1 Fibrous 2 Non Fibrous 3 Other	l Homogeneous l2 Heterogeneous 3 Other 4 Layers (#)	1 Teased 2 Crushed 3 Dissolved 4 Ashed	Chrysotile Amoste Anthophyllite Tremolite Croadolite Croadolite	1 Cellulose 2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastorite	1 Quartz 2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite	Optical Properties	5
					0 None Detected	7 Hair Fibrous	7 Other Non Fibrous	# P B	E railet
Sai	mple ,	Location	Appearance	Treatment	% ASBESTOS	Type %	Type %	Layers in the solution	isque ===
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6330 East 75th Street, Suite 152 Indianapolis, Indiana 46250 Phone (317) 570-5892 Fax (317) 570-5894



Attn Gregory R Day **Ecology & Environmental** 11550 New Castle Avenue Baton Rouge LA 70816

Thursday July 31 1997

Ref Number IN97642

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

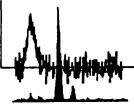
			SAMPLE	<u>ASBI</u>	ESTOS		NONASB	<u>ESTOS</u>	
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS703G01	(b) (6)	Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous	•			I		20%	Other
		Homogeneous							
WBS1055G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	=	į			Other
		Homogeneous							
WBS1055G02		Brown	Crushed	No	ne Detected	1		80%	Quartz
		Non Fibrous	0,40,100						Other
		Homogeneous							
WBS616G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cro	ocidolite			20%	Other
		Homogeneous							
WBS616G02		Brown	Crushed	No	ne Detected			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
WBS596G01		Brown	Crushed	< 1% Ch	rysotile				Quartz
1		Non Fibrous		< 1% Cro	ocidolite			20%	Other
1		Homogeneous							

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



Disclaimers PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and wipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All NVLAP reports with NVLAP logo must contain at least one signature to be valid Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188.0)

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Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

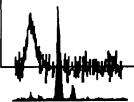
			SAMPLE		<u>ESTOS</u>		NONASB		ļ
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS596G02	(b) (6)	Brown	Crushed	No	one Detected				Quartz
		Non Fibrous		1				20%	Other
		Homogeneous							
WBS899G01	-	Brown	Crushed	1% CI	nrysotile			80%	Quartz
		Non Fibrous	0.401.04		ocidolite				Other
		Homogeneous							
WBS899G02	-	Brown	Crushed	< 1% CI	rvsotile	 		80%	Quartz
		Non Fibrous	0.00/.0u	< 1% Cr	· =				Other
		Homogeneous							
WBS899G03		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous		< 1% Cr	ocidolite			20%	Other
		Homogeneous				!			
WBS964G01		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous				1		20%	Other
		Homogeneous				,			
WBS964G02		Brown	Crushed	< 1% Ch	rysotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous							
L			<u></u>						

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

NY samples also analyzed by ELAP 198 1 Method

Margaret Phillips
Analyst

Approved Signatory



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Attn Gregory R Day **Ecology & Environmental** 11550 New Castle Avenue Baton Rouge LA 70816

Thursday July 31 1997

Ref Number IN97642

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project 020601 RAG1 WESTBANK ASBESTOS

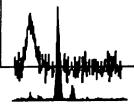
			SAMPLE	ASBES	<u>stos</u>		NONASB		
SAMPLE	LOCATION	APPEARANCE	TREATMENT	%	TYPE	%	FIBROUS	%	NONFIBROUS
WBS964G03	(b) (6)	Brown	Crushed	< 1% Chry	/sotile			80%	Quartz
		Non Fibrous						20%	Other
		Homogeneous				İ			
WBS964G04		Brown	Crushed	< 1% Chry	vsotile			80%	Quartz
		Non Fibrous							Other
		Homogeneous							
WBS964G05		Brown	Crushed	< 1% Chry	rsotile			80%	Quartz
		Non Fibrous		< 1% Croc	odolite			20%	Other
		Homogeneous							
WBS964G06		Brown	Crushed	< 1% Chry	/sotile			80%	Quartz
		Non Fibrous		< 1% Croc	cidolite			20%	Other
	1	Homogeneous		·		· 			

Comments For all obviously heterogeneous samples easily separated into subsamples and for layered samples each component is analyzed separately Also # of Layers refers to number of separable subsamples

* NY samples also analyzed by ELAP 198 1 Method

Waut3 Hullys Margaret Phillips Analyst

Approved Signatory



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Analysis performed by EMSL of Indianapolis (NVLAP Air and Bulk #200188-0)

Client Ecology & Environmental			ntai		Logged	7/30)/97			TAT	1 Day			/
Address	11550 New Castle Avenue Baton Rouge LA 70816		D	ate/Time Due	7/31/97 9 30 AI			AM ————						
Fax (504) 363 - 4732						Special Handling					Billing Numbe			
Project	020601 RAC	31 WESTBAN	C ASBESTOS		i l	<u>-</u>						114970		
1 Brown	Appearance		1 Homogeneous	Treatment	Asbestos Resi	sults Fibroi		ous	Non Fibrous		- -	Optical Properties		•
2 Grey 3 Tan 4 White 5 Red	7 Black 8 Silver 9 Blue 0 Orange	2 Non-Fibrous 3 Other		3 Dissolved 4 Ashed	2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite 10 None Detected	3 4 5 6	2 Glass 3 Min Wool 4 Synthetic 5 Other 6 Wollastonite 7 Hair		2 Mica 3 Gypsum 4 Cal Carbonate 5 Matrix 6 Perlite 7 Other			i 2 Stra ghi 3 Spo, fy	S	
Sai	mple	Location	Appearance	Treatment	% ASBESTO		Fibrous Type %		Non Fibrous		# Layers	P B I Yes I Low 2 \ 2 Med 3 High	E I Parallel 2 Symmetric 3 Oblique	
	linpio	Location	1	Troutinon.	NO		1,700		<u> </u>	80	i	1	11	
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	ŧ			2	6-4170				7	20				2
WBS 10	55401		!		NO					80		2 1	<u>, ~</u> 	111
WASI	55602		2	2	MIS			-	7		-	М Р В	S	
	-			<u></u>	1-4173					80		1.54	(5 5	171
W3561	6601		2	2.	6-4170					<i>2</i> 0	-	1 ^M 2 1 ^B	S	2
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WBSLO	16 GOZ		2	٠,						20		P B	S E	
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W3559	660		2	2	6-4190				7	20	•	1 ^M 2 1 ^B	I E	2/
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WB580	79601			2 -	6-170							ا ک	l E	11/1

EMSL Analytical Inc 6330 E 75th St Suite 152 Indianapolis IN 46250

Analyst Musuet Phulp Date 7/31/97 Computer _____

Date

Client **Ecology & Environmental** 7/30/97 TAT 1 Day Logged Address 11550 New Castle Avenue Date/Time Due 7/31/97 9 30 AM Baton Rouge LA 70816 Special Handling Billing Number (504) 363 4732 Fax IN97642 020601 RAG1 WESTBANK ASBESTOS Project Appearance Treatment Asbestos Results Fibrous Non Fibrous Optical **Properties** 6 Various Fibrous Chrysottle Cellulose 1 Quartz 1 Brown Homogeneous Teased 2 Glass 3 Min Wool 2 Grey 7 Black Non-Fibrous Heterogeneous 2 Mica Crushed 3 Dissolv 4 Ashed 3 Gypsum 4 Cal Carbonate 3 Other 13 Tan 8 Silver Other Dissolved Anthophyllite 9 Blue 4 Synthetic 4 Layers (#) Tremolite 4 White 0 Orange Actinolite 5 Matrix 5 Red Crocidolite Wollastonite 6 Perlite 7 Other 0 None Detected Hair **Fibrous** Non Fibrous Layers % ASBESTOS Location Туре Sample Appearance Treatment Type 1-<170 80 2 120 2 WBS 899602 1-170 80 155171 1.54 2 6-190 WB5899603 80 1,55 1-4190 2 S 20 2 WB5964 GOI 55 55 1-<190 80 20 2 2 Ē WBS964602 80 1- <170 (55)# 154 S 2 7 20 2 3 WBS964603 180 1.55 1-<17 154 7 20 2 1 W35964G04 1.55 171 1- 1 % 80 15 2 20 2 6-1170 2 WBS964605 l 1 2 1 71 80 1-<170 20 2 2 6-4170 2 P2 (B Į WB5964606

Computer

Date

7/3/27

Margaret & Phillips Date

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EPA 7500-53

Green to Report Yellow Returns with Warrant

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EPA 7500-53 (11/96)

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